

Section 21

Transportation. Land and Air

and goods by land and air. The modes of transport included are railway, trucking, bus and streetcar, pipeline, and civil aviation. The principal sources of these data are *Transport Statistics in the United States*, Part 1 (formerly *Statistics of Railways in the United States*), published annually by the Interstate Commerce Commission; the *Transit Fact Book*, relating to street railways, published annually by the American Transit Association, and the *Statistical Handbook of Civil Aviation* published by the Civil Aeronautics Administration. Various periodic reports such as the *Monthly Report on Transportation Statistics* and the quarterly and annual *Statistics of Class I Motor Carriers* (issued as Part 7 of *Transport Statistics*) are issued by the Interstate Commerce Commission. In addition, the Association of American Railroads supplements official railway statistics with various releases, and the annual review and statistical number of *Fleet Owner* (*Bus Transportation* prior to January 1957), a

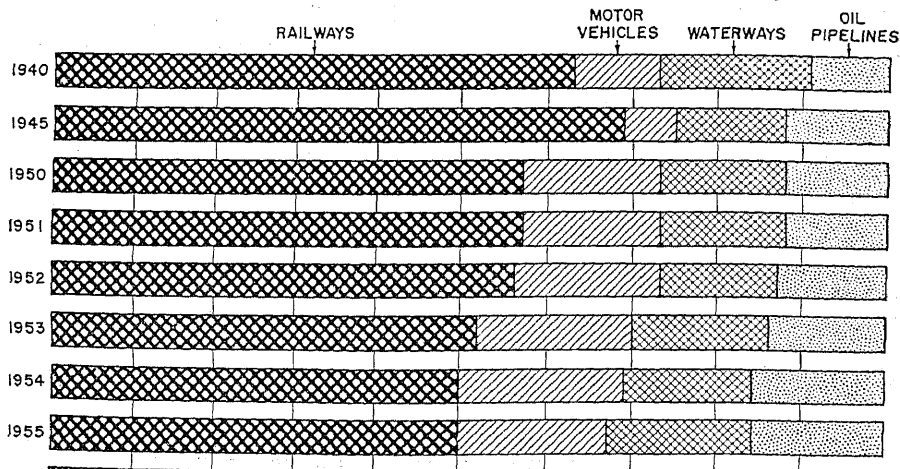
Civil aeronautics.—Federal promotion and regulation of civil aviation are carried out by two bodies—the Civil Aeronautics Administration and the Civil Aeronautics Board. The Civil Aeronautics Board prescribes Civil Air Regulations which deal with the competency of airmen, airworthiness of aircraft, and air traffic control. The Board also issues certificates permitting persons to engage in air transportation as a business; fixes air-mail rates which they may charge, and may establish maximum and minimum rates for transportation of passengers and goods. It also has the duty of investigating accidents in air transportation. The Board also hears prosecutions brought by the Administrator of Civil Aeronautics in connection with the revocation and suspension of airmen and air carrier certificates as a result of violations of the Civil Air Regulations.

The Civil Aeronautics Administration is an operating agency of the Department of Commerce. Its principal activities are the operation of air route traffic control centers, airport traffic control towers, and communication stations; and the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment for the airways. It also promotes safety through the certification of planes, pilots, mechanics, and air agencies, such as flight and ground schools; checks the design, structure, and performance of new planes to insure the safety of the flying public; and investigates accidents to fixed-wing aircraft of 12,500 pounds or under (with the exception of those used in Alaskan air carrier operations). The CAA also acts in an advisory capacity in the design and construction of airports; administers the Federal Aid Airport Program; provides technical civil aviation assistance in foreign countries and arranges for the technical aeronautical training of foreign nationals in the United States; and conducts technical research and development programs.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, 1789-1945*, series K 28-33") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*, and its *Continuation to 1952*. See preface.

FIG. XXXIII.—PERCENT DISTRIBUTION OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1940 TO 1956

[Airways not shown separately—less than one-tenth of 1 percent. See table 716]



No. 716.—VOLUME OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1940 TO 1956

[In millions of ton-miles. A ton-mile is the movement of a ton (2,000 lbs.) of freight for the distance of one mile. Comprises public and private traffic and revenue and nonrevenue traffic]

YEAR	Total traffic, volume	RAILWAYS ¹		MOTOR VEHICLES		INLAND WATERWAYS ²		OIL PIPELINES		AIRWAYS ³	
		Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total
1940.....	651,204	411,813	63.24	62,043	9.53	118,057	18.13	59,277	9.10	14	0.002
1945.....	1,072,490	736,184	68.64	66,948	6.24	142,737	13.31	126,530	11.80	91	0.008
1950.....	1,094,160	628,463	57.44	172,860	15.80	163,344	14.93	129,175	11.81	318	0.029
1951.....	1,209,099	686,377	56.77	188,012	15.55	182,216	15.07	152,115	12.58	379	0.031
1952.....	1,172,167	651,276	55.56	194,607	16.60	168,367	14.36	157,502	13.44	415	0.035
1953.....	1,232,477	642,578	52.14	217,163	17.62	202,439	16.43	169,884	13.78	413	0.034
1954.....	1,145,434	577,529	50.42	214,626	18.74	173,679	15.16	170,203	15.64	397	0.035
1955.....	1,800,994	654,573	50.31	226,188	17.39	216,508	16.64	203,244	15.62	481	0.037
1956.....	1,381,220	676,974	49.01	253,751	18.37	219,973	15.93	229,959	16.65	563	0.041

¹ Includes electric railways, express, and mail. ² Includes Great Lakes.

³ Domestic service only. Includes express, mail, and excess baggage.

⁴ Part of this increase resulted from coverage of waterways previously existing but not covered.

⁵ Motor-vehicle ton-miles revised upward on basis of new data; not applied to previous years.

Source: Interstate Commerce Commission; annual report, and Statement No. 568, *Intercity Ton-Miles, 1939-1954*, February 1956.

No. 717.—VOLUME OF DOMESTIC INTERCITY PASSENGER TRAFFIC, BY TYPE OF TRANSPORTATION: 1950 TO 1956

[In millions of passenger-miles. A passenger-mile is the movement of one passenger for the distance of one mile. Comprises public and private traffic and revenue and nonrevenue traffic]

YEAR	Total traffic, volume	RAILWAYS ¹		COMMERCIAL MOTOR CARRIERS		PRIVATE AUTOMOBILES		INLAND WATERWAYS ²		AIRWAYS ³	
		Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total
1950.....	473,022	32,481	6.87	26,436	5.59	402,843	85.16	1,190	0.25	10,072	2.13
1951.....	534,782	35,306	6.60	27,418	5.13	457,787	85.60	1,333	0.25	12,938	2.42
1952.....	575,345	34,710	6.03	28,704	4.99	495,547	86.13	1,396	0.24	14,988	2.61
1953.....	608,769	32,261	5.30	28,397	4.66	529,194	86.93	1,487	0.24	17,430	2.86
1954.....	625,113	29,467	4.71	25,614	4.10	548,763	87.79	1,701	0.27	19,568	3.13
1955.....	664,510	28,695	4.32	25,519	3.84	585,817	88.16	1,738	0.26	22,741	3.42
1956.....	698,826	28,541	4.08	25,189	3.60	617,713	88.39	1,860	0.27	25,523	3.65

¹ Includes steam and electric. ² Includes Great Lakes.

³ Includes domestic revenue service and private pleasure and business flying.

Source: Interstate Commerce Commission; annual report.

No. 718.—OPERATING REVENUES, BY TRANSPORT AGENCY: 1940 TO 1957

[In millions of dollars]

TRANSPORT AGENCY	1940	1945	1950	1954	1955	1956	1957 ¹ (prel.)
Pullman Company.....	60	148	104	100	95	96	93
Electric railways ²	53	87	79	56	60	49	47
Railway Express ³	120	284	223	235	241	257	252
Railroads ⁴	4,459	9,136	9,820	9,708	10,495	10,963	10,960
Water lines ⁵	113	173	330	399	452	476	484
Trunklines (all).....	226	304	442	617	678	737	751

No. 719.—RAILWAYS—SUMMARY STATISTICS: 1910 to 1956

[As of June 30 for 1910, thereafter December 31. Includes intercorporate duplications. See also *Historical Statistics, 1789-1945*, series K 1-83]

No. 720.—RAILWAY COMPANIES, BY CLASS: 1956

[See text on page 561 for explanation of abbreviations.]

CLASS OF COMPANY	Companies	MILES OF ROAD ¹		EQUIPMENT IN SERVICE			Revenue freight originated ⁵ (mil. tons)	Net railway operating income (\$1,000)
		Owned ²	Operated ³	Locomotives	Freight-train cars ⁴	Passenger-train cars		
Total	899	220, 221	233, 604	32, 593	1, 760, 070	30, 817	1, 521	1, 123, 688
Class I line-haul operating.....	113	190, 326	223, 336	30, 433	1, 727, 417	30, 717	1, 447	1, 068, 246
Lessors to Class I.....	145	17, 131	-----	-----	-----	-----	-----	-----
Class II line-haul operating.....	309	9, 175	10, 173	724	10, 708	93	74	15, 463
Lessors to Class II.....	14	330	-----	-----	-----	-----	-----	-----
Switching and terminal.....	⁶ 234	(7)	(7)	1, 436	15, 945	7	-----	39, 979
Proprietary ⁷	64	2, 957	-----	-----	-----	-----	-----	-----
Circular.....	19	286	95	-----	-----	-----	-----	-----
Unofficial.....	1	16	-----	-----	-----	-----	-----	-----

¹ Single or first main track.² Excludes all duplications; also excludes 162 miles in Canada, 565 miles in Alaska, and 25 miles in Hawaii.³ Includes some duplication under trackage rights and 1,358 miles in Canada; excludes 565 miles in Alaska and 25 miles in Hawaii.⁴ Includes caboose cars.⁵ Excludes switching and terminal companies.⁶ Includes operating, lessor, proprietary, circular, and unofficial companies.⁷ Not comparable.⁸ Excludes those in systems which file consolidated reports combining mileage, investment, and other items on a net system basis.Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 721.—RAILWAYS—MILES OF ROAD OWNED, BY STATES AND TERRITORIES: 1940, 1950, AND 1956

[Data are for actual length of line of each State without duplication. As of Dec. 31]

STATE OR TERRITORY	1940	1950	1956	STATE OR TERRITORY	1940	1950	1956
Cont. U. S.	233, 670	223, 779	220, 221	W. N. Central—Con.			
New England.....	6, 677	6, 396	6, 205	Missouri.....	7, 042	6, 735	6, 706
Maine.....	1, 882	1, 830	1, 795	North Dakota.....	5, 266	5, 256	5, 239
New Hampshire.....	1, 002	936	869	South Dakota.....	4, 006	3, 958	3, 916
Vermont.....	919	889	846	Nebraska.....	6, 044	5, 800	5, 749
Massachusetts.....	1, 793	1, 726	1, 689	Kansas.....	8, 564	8, 441	8, 414
Rhode Island.....	194	185	181	East South Central...	16, 179	15, 574	15, 389

No. 722.—RAILWAYS—EQUIPMENT IN SERVICE: 1950 TO 1956

ITEM	1950	1953	1954	1955	1956
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No. 725.—RAILWAYS (CLASS I)—SELECTED FREIGHT STATISTICS: 1950 TO 1957

[Excludes switching and terminal roads. Tons of 2,000 pounds. See text, p. 561, for explanation of change in class limits beginning 1956. See also *Historical Statistics, 1789-1945*, series K 43-52]

ITEM	1950	1954	1955	1956	1957 (prel.)
Average miles of road operated.....	225,339	223,894	222,295	221,845	221,454
Operating revenue.....mil. dol.	7,817	7,798	8,538	8,951	8,929
Per ton-mile.....cents	1.33	1.42	1.37	1.38	1.45
Per ton per road.....dollars	3.04	3.39	3.25	3.31	3.48
Revenue tons:					
Originated.....millions	1,354	1,224	1,396	1,447	1,380
Carried.....do	2,570	2,298	2,602	2,705	2,563
Carried 1 mile.....do	588,578	549,259	623,615	646,623	618,094
Miles per revenue ton per road (average haul)...	229.0	239.0	239.4	239.1	241.2
Freight train miles.....millions	515	447	476	475	447
Freight train car-miles:					
Loaded, revenue and nonrevenue.....do	19,644	18,152	20,099	20,224	19,068
Empty.....do	10,140	10,631	11,054	11,335	11,598
Net ton-miles per train-mile ¹	1,224	1,287	1,374	1,422	1,439
Net ton-miles per loaded car-mile ¹	31.7	31.4	32.1	33.0	33.4

¹ Revenue and nonrevenue freight.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 726.—RAILWAYS (CLASS I)—REVENUE FREIGHT ORIGINATED AND GROSS FREIGHT REVENUE, BY COMMODITY GROUPS: 1940 TO 1957

[Carload freight only, except as specified. See text, p. 561, for explanation of change in class limits beginning 1956. See also *Historical Statistics, 1789-1945*, series K 52-59]

ITEM	1940	1945	1950	1955	1956	1957 (prel.)
REVENUE FREIGHT ORIGINATED (1,000 short tons)						
Total.....	1,009,421	1,424,913	1,354,196	1,396,339	1,447,422	1,380,327
Products of agriculture.....	88,821	159,571	129,175	133,790	138,093	137,618
Animals and their products.....	15,458	23,748	14,321	13,161	13,198	11,074
Products of mines.....	570,218	732,942	746,808	761,993	796,480	769,675
Coal and coke.....	372,663	485,109	420,296	394,394	424,393	422,042
Other.....	197,557	247,833	326,512	367,699	372,087	347,633
Products of forests.....	58,221	75,604	78,860	82,585	87,789	77,498
Manufactures and miscellaneous ¹	262,010	412,216	374,145	397,819	405,366	379,020
All less than carload.....	14,692	20,833	10,887	6,993	6,485	5,443
GROSS FREIGHT REVENUE (\$1,000)						
Total.....	3,678,097	6,949,258	8,145,630	8,938,388	9,377,224	9,371,712
Products of agriculture.....	510,083	985,114	1,054,574	1,133,492	1,184,012	1,209,237
Animals and their products.....	172,599	279,443	275,858	294,402	302,005	269,711
Products of mines.....	1,076,419	1,486,683	1,993,687	2,121,426	2,358,261	2,390,167
Coal and coke.....	(2)	1,024,471	1,301,101	1,280,761	1,404,625	1,467,970
Other.....	(2)	462,212	692,586	840,665	893,636	922,197
Products of forests.....	235,865	316,154	680,836	686,821	696,718	654,214
Manufactures and miscellaneous ¹	1,435,620	3,495,907	3,887,762	4,421,336	4,563,314	4,596,335
All less than carload.....	247,611	385,958	352,913	280,912	272,314	252,045

¹ Includes forwarder traffic.

² Not available.

Source: Interstate Commerce Commission; annual report.

No. 727.—RAILWAYS (CLASS I)—NUMBER OF CARS OF REVENUE FREIGHT LOADED, BY PRINCIPAL COMMODITIES: 1930 TO 1957

[In thousands. Figures are 52-week totals. See text, p. 561, for explanation of change in class limits beginning 1956]

YEAR	Total	Grain and grain products	Live-stock	Coal	Coke	Forest products	Ore	Miscellaneous	Mdse., less than carload
1930.....	45, 878	2, 265	1, 285	7, 927	488	2, 369	1, 662	17, 681	12, 201
1935.....	31, 504	1, 577	714	6, 145	340	1, 384	1, 036	12, 227	8, 081
1940.....	36, 358	1, 835	685	6, 820	549	1, 800	2, 148	14, 842	7, 679
1945.....	41, 918	2, 734	894	8, 296	695	2, 039	2, 474	19, 258	5, 529
1950.....	38, 903	2, 466	491	7, 240	727	2, 226	2, 529	18, 955	4, 269
1951.....	40, 499	2, 588	497	7, 503	838	2, 363	3, 004	19, 840	3, 806
1952.....	37, 985	2, 565	492	6, 717	673	2, 270	2, 653	18, 924	3, 691
1953.....	38, 216	2, 453	451	6, 371	688	2, 254	3, 143	19, 360	3, 496
1954.....	33, 915	2, 555	447	5, 670	422	2, 085	2, 115	17, 436	3, 185
1955.....	37, 636	2, 633	441	6, 308	616	2, 275	2, 846	19, 087	3, 230
1956.....	37, 845	2, 705	442	7, 007	616	2, 317	2, 749	18, 953	3, 056
1957 (prel.).....	35, 500	2, 674	343	6, 750	575	1, 995	2, 862	17, 551	2, 750

Source: Association of American Railroads, Car Service Division, Washington, D. C.; annual summary, *Cars of Revenue Freight Loaded*. Weekly reports are published currently.

No. 728.—RAILWAYS (CLASS I)—SELECTED PASSENGER STATISTICS: 1950 TO 1957

[See text, p. 561, for explanation of change in class limits beginning 1956]

ITEM	1950	1954	1955	1956	1957 (prel.)
Average miles of road operated.....	150, 349	124, 541	119, 545	115, 951	112, 724
Passenger revenue.....\$1,000.....	813, 417	767, 283	742, 945	756, 402	735, 127
Revenue per passenger-mile.....cents.....	2. 56	2. 62	2. 60	2. 68	2. 84
Including commutation passengers.....do.....	2. 39	2. 62	2. 60	2. 21	2. 36
Excluding commutation passengers.....do.....	2. 46	2. 73	2. 70	2. 78	2. 95
Revenue passengers carried.....1,000.....	486, 194	439, 356	431, 377	428, 521	411, 179
Revenue passenger-miles.....millions.....	31, 760	29, 286	28, 523	28, 190	26, 889
Revenue passenger-miles per train-mile.....	89	92	95	96. 9	93. 9
Revenue passenger-miles per car-mile.....	17	17	18	18. 1	18. 1
Average journey per passenger per road.....miles.....	65. 3	66. 7	66. 1	65. 8	63. 0
Passenger-train miles.....1,000.....	357, 618	317, 153	298, 602	290, 853	275, 766
Passenger-carrying car-miles.....do.....	1, 854, 737	1, 648, 442	1, 570, 916	1, 553, 228	1, 432, 857

Source: Interstate Commerce Commission; annual report, and *Transport Statistics in the United States*, Part 1.

No. 729.—RAILWAYS—NUMBER AND COMPENSATION OF EMPLOYEES: 1930 TO 1957

[Excludes switching and terminal roads. See also *Historical Statistics, 1789-1945*, series K 82-83]

YEAR	ALL OPERATING CARRIERS		CLASS I CARRIERS ¹					
	Average number of employees	Total yearly compensation (\$1,000)	Average number of employees	Total hours (1,000)	Total yearly compensation (\$1,000)	Average hours per employee	Average compensation	
							Per hour ²	Per year
1930.....	1, 517, 043	2, 588, 598	1, 487, 839	3, 759, 772	2, 550, 789	2, 527	\$0. 678	\$1, 714
1935.....	1, 013, 654	1, 666, 229	994, 371	2, 397, 353	1, 326, 879	2, 411	. 686	1, 653
1940.....	1, 045, 738	1, 990, 631	1, 026, 848	2, 615, 905	1, 964, 125	2, 548	. 751	1, 913
1945.....	1, 438, 545	3, 900, 928	1, 419, 505	3, 979, 637	3, 862, 001	2, 804	1. 970	2, 721
1950.....	1, 236, 879	4, 644, 890	1, 220, 401	2, 876, 591	4, 594, 423	2, 357	1. 597	3, 765
1951.....	1, 292, 000	5, 328, 072	1, 275, 744	2, 978, 870	5, 272, 975	2, 335	1. 770	4, 133
1952.....	1, 241, 963	5, 382, 489	1, 226, 421	2, 845, 217	5, 326, 804	2, 320	1. 872	4, 343
1953.....	1, 221, 300	5, 380, 828	1, 205, 966	2, 777, 235	5, 324, 951	2, 303	1. 917	4, 415
1954.....	1, 078, 403	4, 906, 584	1, 064, 337	2, 467, 515	4, 853, 660	2, 318	1. 967	4, 560
1955.....	1, 071, 387	5, 045, 278	1, 058, 216	2, 503, 418	4, 993, 662	2, 366	1. 995	4, 708
1956.....	1, 058, 053	5, 387, 631	1, 042, 664	2, 466, 745	5, 324, 672	2, 386	2. 159	5, 108
1957 (prel.).....	(³)	(³)	986, 001	2, 314, 976	5, 358, 044	2, 348	2. 315	5, 436

¹ See text, p. 561, for explanation of change in class limits beginning 1956.

² Calculated for all classes of employees, including those not paid on an hourly basis.

³ Not available.

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, beginning 1954, *Transport Statistics in the United States*, Part 1.

**No. 730.—RAILWAY ACCIDENTS—NUMBER OF PERSONS KILLED AND INJURED, BY
STATUS: 1921 TO 1956**

[As of December 31. For various reasons, including fact that returns were required under different acts, statistics are not strictly comparable. From 1921-47 train accidents were those causing damage to railway property in excess of \$150 with or without a casualty; for 1948, accidents causing damages in excess of \$250, with or without a casualty, were classified as train accidents; for 1949-50, train accidents were those causing damage of \$275 or more; in 1951, \$300 or more; in 1952, \$325 or more; and beginning 1953, \$350 or more. Where damage was less than the amounts specified and there was a reportable casualty it was classified as a train-service accident. Covers all reportable accidents, including those due to suicide, mental derangement, and attempting to escape custody. See also *Historical Statistics, 1789-1945*, series K 84-93]

YEARLY AVERAGE OR YEAR	TOTAL		PASSENGERS ¹		EMPLOYEES		OTHER PERSONS		TRESPASSERS	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1921-1925.....	6,618	141,688	173	5,578	1,654	123,790	2,225	9,420	2,566	2,901
1926-1930.....	6,623	89,543	101	3,667	1,395	73,522	2,606	9,822	2,521	2,532
1931-1935.....	5,127	29,834	38	1,995	589	18,222	1,811	6,529	2,688	3,087
1936-1940.....	4,987	31,292	56	2,533	613	19,765	1,866	6,883	2,452	2,111
1941-1945.....	5,060	53,813	174	4,274	989	41,223	2,059	7,038	1,838	1,278
1946-1950.....	3,918	41,868	97	3,706	598	30,778	1,777	6,243	1,446	1,141
1951-1955.....	2,969	29,411	55	2,447	336	20,401	1,566	5,637	1,012	926
1947.....	4,285	48,819	79	4,246	791	36,880	1,903	6,502	1,512	1,191
1948.....	3,883	43,107	59	3,607	622	31,961	1,726	6,409	1,476	1,130
1949.....	3,426	32,123	37	2,545	450	22,993	1,614	5,506	1,325	1,079
1950.....	3,486	33,267	180	3,419	392	22,586	1,669	6,129	1,245	1,133
1951.....	3,459	34,454	150	3,184	432	24,266	1,693	5,993	1,184	1,011
1952.....	3,011	30,001	24	2,049	386	21,339	1,522	5,669	1,079	944
1953.....	3,039	29,214	49	2,503	343	20,170	1,571	5,577	1,076	964
1954.....	2,575	25,847	30	2,247	235	17,219	1,399	5,181	911	900
1955.....	2,761	27,840	24	2,253	282	19,011	1,646	5,765	809	871
1956.....	2,573	28,676	57	2,756	288	19,608	1,394	5,435	839	877

¹ Data cover passengers on trains and travelers not on trains. Casualties sustained in nontrain accidents included with "Other persons."

Source: Interstate Commerce Commission; annual report, *Accident Bulletin*.

**No. 731.—ACCIDENTS AT HIGHWAY GRADE CROSSINGS (ALL RAILWAYS)—AUTO-
MOBILE AND TOTAL CASUALTIES: 1935 TO 1956**

[Excludes casualties due to suicide, mental derangement, and attempting to escape custody. See also headnote, table 730]

YEAR	Number of acci- dents	ALL PERSONS		ACCIDENTS WHICH INVOLVED AUTOMOBILES		Total cas- ualties per 10,000 auto- mobiles registered
		Number killed	Number injured	Persons killed	Persons injured	
1935.....	3,933	1,680	4,658	1,442	4,434	2.24
1940.....	4,104	1,808	4,632	1,576	4,430	1.88
1945.....	4,100	1,903	4,446	1,577	4,126	1.86
1946.....	4,001	1,851	4,397	1,558	4,137	1.68
1947.....	4,015	1,790	4,251	1,521	4,055	1.49
1948.....	3,964	1,612	4,255	1,355	4,054	1.33
1949.....	3,523	1,507	3,774	1,307	3,607	1.11
1950.....	4,000	1,576	4,368	1,393	4,206	1.15
1951.....	3,995	1,578	4,335	1,396	4,161	1.08
1952.....	3,502	1,407	3,904	1,249	3,752	0.95
1953.....	3,675	1,494	3,815	1,319	3,688	0.90
1954.....	3,336	1,303	3,426	1,151	3,314	0.76
1955.....	3,846	1,446	4,014	1,313	3,886	0.83
1956.....	3,639	1,338	3,755	1,202	3,629	0.74

Source: Interstate Commerce Commission; annual report, *Accident Bulletin*.

No. 733.—MOTORBUS LINES—SUMMARY OF OPERATIONS OF COMMON CARRIERS AND
SCHOOL BUSES: 1945 TO 1957

ITEM	1945	1950	1953	1954	1955	1956 1	1957
COMMON CARRIER BUS OPERATIONS							
Number of operating companies (Dec. 31):							
City and city suburban.....	1,811	1,638	1,550	1,575	1,575	1,527	1,540
Intercity.....	2,645	2,858	2,650	2,625	2,600	1,912	1,700
Number of buses (Dec. 31):							
City and city suburban.....	50,625	57,570	56,400	55,700	55,200	52,400	51,800
Intercity.....	31,250	28,711	28,500	27,800	27,600	25,000	24,100

No. 734.—CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY—SUMMARY OF FINANCIAL AND OPERATING STATISTICS: 1950 TO 1956

[All money figures in thousands of dollars, except revenue and expense per vehicle-mile. See text, p. 561, for explanation of change in class limits beginning 1956]

ITEM	1950	1953	1954	1955	1956
Number of carriers reporting.....	1,621	2,027	2,110	2,244	2,293
Investment in carrier operating property.....	747,756	1,190,650	1,289,654	1,514,971	1,706,171
Reserve for depreciation and amortization.....	309,430	568,048	652,879	735,704	816,444
Income statement:					
Operating revenue, total.....	2,379,713	3,493,326	3,431,017	4,030,291	3,571,242
Common carrier.....	2,180,779	3,176,413	3,107,870	3,621,933	3,317,787
Contract carrier.....	143,771	229,642	238,142	294,444	174,161
Other operating revenue.....	55,164	87,271	85,005	113,914	79,294
Expenses, total.....	2,215,006	3,360,302	3,323,108	3,869,852	3,439,177
Operation and maintenance expenses.....	1,968,089	3,057,834	2,991,909	3,496,521	3,099,668
Depreciation and amortization ²	84,497	133,043	144,726	157,197	142,384
Operating taxes and licenses ³	103,408	169,425	186,473	216,134	197,125
Operating rents, net.....	59,012				
Operating ratio (percent expenses of operating revenue).....	93.1	96.2	96.9	96.0	96.3
Net operating revenue.....	164,707	133,024	107,909	160,439	132,065
Lease of distinct operating unit—Net.....	540	561	476	979	(1)
Other income, less income deductions.....	5,603	18,398	18,527	13,763	16,889
Net income before income taxes.....	158,565	119,071	94,906	145,697	115,176
Net income after income taxes.....	92,682	60,193	54,017	82,213	63,581
Dividend appropriations and withdrawals ⁴	23,482	25,311	29,636	28,547	25,116
Operating statistics and averages:					
Owned revenue vehicles, total ⁵	191,243	251,437	259,908	288,668	304,322
Inter-city vehicle-miles..... millions.....	5,352	6,802	6,538	7,559	7,529
Tons of inter-city revenue freight carried ⁶ 1,000.....	212,997	270,208	271,367	313,583	330,304
Miles per owned vehicle.....	53,833	50,010	49,667	53,008	51,409
Revenue per vehicle-mile (inter-city) ⁷	\$0.434	\$0.501	\$0.512	\$0.518	\$0.554
Expense per vehicle-mile (inter-city) ⁷	\$0.414	\$0.494	\$0.508	\$0.512	\$0.550

¹ Not available.

² Amortization represents a very small part of this total.

³ Excludes Federal and State income taxes.

⁴ Withdrawals of sole proprietors and partners.

⁵ Excludes equipment used under lease, including operations conducted under "purchased transportation" arrangements.

⁶ Includes duplications on account of tonnage received from connecting motor carriers.

⁷ Basic figures include expenses of operating vehicles in local services not available separately.

No. 735.—CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY—SELECTED OPERATING STATISTICS, BY REGIONS: 1954 AND 1955

[See text, p. 561. Regions: 1, Conn., Maine, Mass., N. H., R. I., Vt.; 2, Del., D. C., Md., N. J., N. Y., Pa., W. Va.; 3, Ill., Ind., Mich. (Lower Pen.), Ohio; 4, Ala., Fla., Ga., Ky., Miss., N. C., S. C., Tenn., Va.; 5, Mich. (Upper Pen.), Minn., N. Dak., S. Dak., Wis.; 6, Iowa, Kans., Mo., Neb.; 7, Ark., La., Okla., Tex.; 8, Colo., Idaho, Mont., N. Mex., Utah, Wyo.; 9, Ariz., Calif., Nev., Oreg., Wash.]

REGION AND YEAR	Number of carriers reporting	Operating revenue (\$1,000)	Total expenses (\$1,000)	OWNED REVENUE VEHICLES ¹				Inter-city vehicle miles (millions)	EMPLOYEES ²	
				Trucks	Truck-tractors	Semi-trailers	Full trailers		Average number	Compensation (\$1,000)
1954.....	2,110	3,431,017	3,323,108	35,064	82,278	137,105	5,461	6,538	303,828	1,458,841
1. New England.....	176	161,715	158,866	2,727	5,248	8,342	55	221	17,983	83,419
2. Middle Atlantic.....	497	620,679	605,661	6,329	17,239	27,775	201	1,018	58,637	275,157
3. Central.....	534	1,119,455	1,085,780	6,715	24,007	43,257	1,649	2,185	89,455	451,682
4. Southern.....	264	459,104	421,919	5,036	11,661	19,057	42	957	41,153	176,642
5. Northwestern.....	91	136,423	132,417	1,482	3,822	5,333	---	255	13,732	69,555
6. Midwestern.....	138	259,662	236,641	2,323	5,175	8,666	70	514	19,909	97,525
7. Southwestern.....	148	262,812	252,794	4,052	6,628	9,750	54	559	25,080	112,796
8. Rocky Mountain.....	67	143,160	134,123	1,697	2,316	3,788	341	298	11,210	56,689
9. Pacific.....	195	307,975	294,907	5,653	6,182	11,137	3,049	530	26,669	138,246
1955.....	2,244	4,030,291	3,869,852	37,472	92,073	153,504	5,619	7,559	332,188	1,690,208
1. New England.....	180	169,202	167,630	2,740	5,568	8,704	45	227	18,428	86,873
2. Middle Atlantic.....	537	724,072	699,929	6,780	18,744	30,792	337	1,176	62,789	313,751
3. Central.....	570	1,364,276	1,302,167	5,965	26,881	48,555	1,662	2,612	98,158	535,401
4. Southern.....	287	521,953	498,291	5,550	13,905	21,302	2	1,114	46,098	210,238
5. Northwestern.....	96	155,738	150,633	1,530	4,195	5,976	---	280	14,695	75,484
6. Midwestern.....	141	276,593	269,732	2,363	5,887	9,319	69	583	20,996	110,849
7. Southwestern.....	152	304,870	288,572	4,212	7,487	10,764	103	650	26,982	128,108
8. Rocky Mountain.....	69	152,635	145,365	1,738	2,551	4,319	335	321	12,192	62,619
9. Pacific.....	212	360,953	347,542	6,594	7,455	13,773	3,076	597	31,850	166,885

¹ See footnote 5, table 734.

² Excludes drivers of equipment engaged by these carriers to perform "purchased transportation" service.

Source of tables 734 and 735: Interstate Commerce Commission; annual reports, *Statistics of Class I Motor Carriers*, and, beginning 1954, *Transport Statistics in the United States*, Part 7.

No. 736.—CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS—SUMMARY OF FINANCIAL AND OPERATING STATISTICS: 1950 TO 1956

[All money figures in thousands of dollars, except average fare and revenue and expense per vehicle-mile. See headnote, table 734. Excludes carriers subject to ICC jurisdiction engaged preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers]

ITEM	1950	1953	1954	1955	1956
Number of carriers reporting.....	172	161	155	146	149
Investment in carrier operating property.....	286,000	339,695	361,648	372,801	(1)
Reserve for depreciation and amortization.....	144,489	186,031	194,698	197,076	(1)
Income statement:					
Operating revenue, total.....	350,751	394,562	362,896	361,644	384,281
Passenger revenue ²	324,529	351,791	319,286	314,759	330,090
Special bus revenue.....	11,694	21,991	21,675	22,346	25,758
Other operating revenue.....	14,528	20,780	21,935	24,539	28,524
Expenses, total.....	314,773	353,641	331,810	330,593	349,910
Operation and maintenance expenses.....	254,905	293,050	271,378	269,660	285,392
Depreciation and amortization ³	27,188	24,705	25,925	27,117	29,290
Operating taxes and licenses ⁴	28,649	31,491	30,110	30,347	31,902
Operating rents, net.....	4,030	4,395	3,896	3,474	3,326
Operating ratio (percent expenses of operating revenue).....	89.7	89.6	91.3	91.4	91.1
Net operating revenue.....	35,978	40,921	31,587	31,046	34,371
Lease of carrier property, net.....	100	19	59	33	(1)
Other income, less income deductions.....	755	445	911	1,695	345
Net income before income taxes.....	35,121	40,487	30,617	29,319	34,026
Net income after income taxes.....	18,903	18,105	15,017	15,570	16,816
Dividend appropriations and withdrawals ⁵	16,088	27,733	28,397	28,345	(1)
Operating statistics and averages:					
Passenger vehicles owned ⁶	13,200	12,940	12,314	11,547	(1)
Vehicle-miles of owned and leased passenger vehicles, total ⁷	1,000	958,530	972,252	886,579	859,207
Number of revenue passengers carried, total.....	do	389,898	350,103	315,919	293,244
Miles per vehicle ⁸	do	61,161	66,169	64,360	64,128
Average fare per passenger, per carrier, intercity service.....	\$1.010	\$1.243	\$1.292	\$1.370	(1)
Passenger revenue per vehicle-mile, regular route intercity.....	\$0.346	\$0.376	\$0.375	\$0.381	(1)
Expense per vehicle-mile ⁹	\$0.328	\$0.363	\$0.373	\$0.384	(1)

¹ Not available.

² Regular route intercity and local revenue.

³ Amortization represents a very small part of this total.

⁴ Excludes Federal and State income taxes.

⁵ Withdrawals of sole proprietors and partners.

⁶ Total vehicles owned at close of year.

⁷ Includes bus-miles of vehicles operated under "purchased transportation" arrangements.

⁸ Averages for owned and leased vehicles.

⁹ See footnote 7, table 734.

No. 737.—CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS—SELECTED OPERATING STATISTICS, BY REGIONS: 1954 AND 1955

[See headnote, table 736; for description of regions, see headnote, table 735]

REGION AND YEAR	Number of carriers reporting	Operating revenue (\$1,000)	Total expenses (\$1,000)	PASSENGER VEHICLES		REGULAR-ROUTE INTERCITY			EMPLOYEES	
				Total ¹	Inter-city ²	Vehicle-miles (1,000)	Revenue passengers carried (1,000)	Average fare per passenger, per carrier	Average number	Compensation (\$1,000)
1954.....	155	362,896	331,310	13,585	12,429	798,611	231,849	\$1,292	37,317	160,705
1. New England.....	10	7,267	7,520	344	335	17,386	5,195	1.189	888	3,563
2. Middle Atlantic.....	35	44,826	44,229	1,860	1,494	76,306	45,193	.706	4,810	20,622
3. Central.....	31	72,443	67,767	2,744	2,373	151,242	45,159	1.320	7,820	33,842
4. Southern.....	27	90,878	78,939	3,206	3,154	209,542	66,577	1.192	8,853	35,828
5. Northwestern.....	4	13,807	13,307	501	501	33,147	7,688	1.509	1,431	6,637
6. Midwestern.....	5	18,131	16,564	506	506	42,056	7,993	1.997	1,706	7,909
7. Southwestern.....	25	56,522	52,322	2,594	2,565	151,192	30,253	1.611	6,000	25,890
8. Rocky Mountain.....	8	3,932	3,550	237	236	9,513	1,635	2.040	377	1,671
9. Pacific.....	10	55,089	47,113	1,593	1,265	108,227	22,156	1.930	5,427	25,742
1955.....	146	361,644	330,598	13,127	12,057	773,167	215,224	1.370	35,709	158,932
1. New England.....	8	3,770	3,727	186	177	8,674	2,880	1.059	453	1,789
2. Middle Atlantic.....	34	44,263	42,809	1,741	1,348	71,339	40,729	.754	4,504	19,408
3. Central.....	28	76,121	71,612	2,712	2,395	155,829	45,289	1.375	7,922	35,782
4. Southern.....	25	85,449	74,919	3,126	3,072	188,769	58,342	1.261	8,053	33,513
5. Northwestern.....	4	14,096	13,784	496	496	32,907	7,311	1.607	1,399	6,655
6. Midwestern.....	5	18,047	16,828	491	491	40,902	7,512	2.088	1,633	7,740
7. Southwestern.....	25	58,949	54,119	2,591	2,584	155,908	29,454	1.711	5,965	25,871
8. Rocky Mountain.....	7	3,955	3,353	244	243	9,284	1,643	2.008	365	1,654
9. Pacific.....	10	56,993	49,441	1,540	1,251	109,555	22,063	2.002	5,410	26,520

¹ Comprises average number operated in intercity service during year and number owned in local operations at close of year.

² Comprises vehicles owned, leased, and operated under "purchased transportation" arrangements, operated in intercity revenue service.

Source of tables 736 and 737: Interstate Commerce Commission; annual reports, *Statistics of Class I Motor Carriers*, and, beginning 1954, *Transport Statistics in the United States*, Part 7.

No. 738.—SUMMARY OF CIVIL FLYING: 1934 TO 1957

[As of Dec. 31 or for year ending Dec. 31. See also *Historical Statistics, 1789-1945*, series K 246-273]

ITEM	1934	1940	1945	1950	1955	1956	1957
Miles of civil airways: ^{1 2}							
Equipped with low/medium frequency radio aids	19,081	32,100	43,285	70,253	67,770	67,783	64,817
Equipped with very high frequency radio aids					81,209	90,268	104,484
Total civil aircraft ^{1 3}	8,322	17,928	37,789	92,809	86,320	87,531	93,189
Active aircraft	(4)	(4)	(4)	60,921	60,432	64,688	67,153
Hours flown ⁴	1,000	3,200	(4)	9,650	9,500	10,000	(4)
Business ⁵	121	314	(4)	2,750	4,300	4,600	(4)
Commercial ⁵	207	387	(4)	1,500	1,950	2,000	(4)
Instructional	217	1,529	(4)	3,000	1,275	1,300	(4)
Pleasure	301	970	(4)	2,300	1,975	2,100	(4)
Other	do.	do.	(4)	100			(4)
Miles flown ⁶	1,000	75,602	264,000	(4)	1,061,500	1,216,000	1,310,000
Business ⁷	do.	11,697	25,910	(4)	339,700	627,800	688,000
Commercial ⁸	do.	20,980	31,961	(4)	180,500	245,700	256,000
Instructional	do.	17,360	126,264	(4)	286,600	120,650	127,000
Pleasure	do.	25,565	79,865	(4)	244,100	221,850	239,000
Other	do.	do.	(4)	10,600			(4)
Fuel consumed: ⁹							
Gasoline	1,000 gal.	9,631	22,400	(4)	131,200	190,000	205,000
Oil	do.	349	600	(4)	2,916	4,222	3,535
Certificated airplane pilots	13,949	69,829	296,895	(4)	643,201	669,079	(4)

No. 739.—SCHEDULED AIR CARRIERS—SUMMARY OF OPERATIONS: 1934 to 1957

[As of Dec. 31 or for year ending Dec. 31, except as noted. See also *Historical Statistics, 1789-1945*, series K 246-273]

ITEM	1934	1940	1945	1950	1955	1956	1957
Number of operators:							
Domestic.....	24	19	20	38	31	30	30
International.....	2	3	4	12	15	13	14
Route miles in operation:							
Domestic ¹	50,801	95,079	87,401	183,841	192,997	197,883	220,641
International ²	28,609	42,757	48,516	77,440	78,992	84,189	88,248
International ³	22,192	52,322	38,885	106,401	114,005	113,694	132,393
Aircraft in service.....	522	437	518	1,120	1,359	1,543	1,664
Domestic.....	423	369	421	960	1,212	1,347	1,494
Single-engine.....			11	29	19	20	26
Twin-engine.....			405	571	645	691	703
Four-engine.....			5	360	548	636	765
International.....	99	68	97	160	147	196	170
Twin-engine.....			71	35	23	20	12
Four-engine.....			26	125	124	176	158
Average available seats: ⁴							
Domestic.....	8.86	16.54	19.68	37.47	51.60	52.43	54.02
International.....	(⁵)	18.28	18.91	40.96	56.33	59.03	61.88
Average speed (miles per hour):							
Domestic.....	(⁵)	(⁵)	155.4	181.2	209.0	212.6	216.1
International.....	(⁵)	(⁵)	150.7	218.4	245.4	249.1	254.0
Fuel consumed:							
Gasoline.....1,000 gal.....	25,136	74,535	159,911	572,246	1,140,447	1,279,357	1,465,040
Domestic.....do.....	18,925	65,675	134,824	418,442	902,936	1,004,732	1,159,208
International.....do.....	6,211	8,860	25,087	153,804	237,511	274,625	305,832
Oil.....do.....	839	1,288	2,025	6,675	13,832	16,192	18,732
Domestic.....do.....	669	1,104	1,710	5,007	11,811	13,671	15,124
International.....do.....	170	184	316	1,668	2,521	2,521	3,608
Total personnel employed.....	6,477	22,051	68,281	82,786	122,208	131,503	147,190
Domestic.....	4,201	15,984	50,313	61,903	95,548	103,489	119,333
International.....	2,276	6,067	17,968	20,883	26,655	28,014	27,857
Revenue miles flown (all services)							
Domestic.....1,000.....	49,065	119,753	241,578	458,087	752,255	834,520	941,344
International.....do.....	41,526	110,101	208,969	364,256	620,720	687,617	784,751
Domestic.....do.....	7,539	9,652	32,609	98,831	131,535	146,903	156,593
Revenue passengers carried.....	⁶ 572	⁶ 2,965	⁶ 7,052	19,019	41,441	45,687	52,712
Domestic.....do.....	⁶ 475	⁶ 2,803	6,576	17,345	38,025	41,738	48,564
International.....do.....	⁶ 97	163	476	1,675	3,416	3,949	4,148
Revenue passenger-miles flown, domestic.....1,000,000.....	7190	1,052	3,362	8,003	19,819	22,362	25,340
Average passenger-mile rate:							
Domestic.....	\$0.059	\$0.0507	\$0.0495	\$0.0555	\$0.0535	\$0.0532	\$0.0530
International.....	(⁷)	\$0.0883	\$0.0867	\$0.0728	\$0.0669	\$0.0670	\$0.0666
Express and freight, ton-miles flown.....1,000.....	(⁷)	(⁷)	30,914	211,914	319,040	354,470	389,819
Domestic.....do.....	⁸ 597	3,476	22,197	151,351	228,071	245,131	266,483
International.....do.....	(⁷)	(⁷)	8,718	60,563	90,969	109,339	123,336
Mail, ton-miles flown:							
Domestic.....do.....	⁹ 2,237	10,118	¹⁰ 65,093	47,009	87,445	93,251	98,873
Accidents, domestic: ¹¹							
Number of accidents.....	71	30	40	39	45	55	52
Revenue miles flown per accident.....1,000.....	585	3,684	5,234	9,859	14,236	13,015	15,783
Total fatalities.....	29	45	88	109	179	156	34
Fatalities per 1,000,000 revenue miles flown.....	0.70	0.41	0.42	0.28	0.28	0.22	0.04
Accidents, international: ¹¹							
Number of accidents.....	2	6	5	6	5	3	9
Revenue miles flown per accident.....1,000.....	3,770	1,609	6,522	15,986	29,084	57,298	20,493
Total fatalities.....	9		27	56	4		44
Fatalities per 1,000,000 revenue miles flown.....	1.19		0.83	0.58	0.03		0.24

¹ 1934 as of Dec. 31; 1940 and 1945, averages for December; and 1950-57, based on fourth quarter.² 1934 and 1940, as of Dec. 31; 1945, average for December; and 1950-57, based on fourth quarter.³ Obtained by dividing passenger seat miles by revenue miles flown in passenger service.⁴ Not available.⁵ Data for domestic passengers include duplication.⁶ Includes nonrevenue passengers.⁷ Includes nonrevenue miles.⁸ Excludes Colonial Airlines, Inc., and Hawaiian Airlines, Ltd.⁹ Excludes 224,236 ton-miles flown by U. S. Army.¹⁰ Excludes regular mail carried under special contract.¹¹ Revenue operations accidents.

Source: Department of Commerce, Civil Aeronautics Administration and Civil Aeronautics Board. Published

No. 740.—SCHEDULED AIR CARRIERS—AVAILABLE SERVICE AND UTILIZATION, AND
TRAFFIC CARRIED: 1946 TO 1957

[In millions]

ITEM	1946 ¹	1949	1950	1951	1952	1953	1954	1955	1956	1957
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No. 743.—NONCERTIFICATED AIR CARRIERS—SUMMARY OF OPERATIONS: 1953 TO 1956

[In thousands, except number of operators. Noncertificated air carriers are those carriers operating by authority of letters of registration granted by the Civil Aeronautics Board. Includes supplemental and large irregular air carriers, and irregular transport air carriers. Figures shown for military cover activities performed under charter or other contract with the Department of Defense]

ITEM	1953	1954	1955	1956
Number of operators.....	(1)	(1)	50	49

No. 745.—DOMESTIC AIR CARGO—TON-MILES FLOWN, BY TYPE OF CARRIER:
1950 TO 1957

As thousands of ton-miles For scheduled combination carriers, comprises express and freight ton-miles; for

No. 748.—CIVIL AIRWAYS MILEAGE, CIVIL AIRCRAFT, AIRPORTS, AND FEDERAL-AID AIRPORT PROGRAM, BY STATES AND FOR TERRITORIES: 1957

[As of December 31, except as noted]

STATE OR TERRITORY	CIVIL AIRWAYS MILEAGE		CIVIL AIRCRAFT ¹		AIRPORTS AND AIRFIELDS ⁴			FEDERAL-AID AIRPORT PROGRAM ⁵ (\$1,000)		
	L/MF ¹	VHF ²	Total	Active	Total	Public	Limited ³	Total	Federal funds	Sponsor funds
Total	64,817	104,484	93,189	67,153	6,412	3,195	3,217	781,687	384,756	396,911
New England:										
Maine.....	1,101	637	465	330	110	34	76	3,671	1,844	1,827
New Hampshire.....	387	240	243	170	32	13	19	925	461	464
Vermont.....	250	-----	163	108	23	13	10	1,842	917	925
Massachusetts.....	637	782	1,340	947	87	46	41	16,749	7,984	8,765
Rhode Island.....	131	157	189	146	9	6	3	4,892	2,392	2,500
Connecticut.....	463	651	740	524	28	19	9	5,163	2,586	2,677
Middle Atlantic:										
New York.....	1,558	3,876	4,486	3,240	266	96	170	54,884	25,586	29,298
New Jersey.....	699	1,200	1,920	1,269	104	52	52	17,704	8,654	9,050
Pennsylvania.....	2,154	6,088	3,328	2,429	278	132	146	45,720	22,475	23,245
East North Central:										
Ohio.....	2,295	4,729	4,293	3,106	271	114	157	32,745	15,805	16,940
Indiana.....	1,177	2,965	2,563	1,933	124	93	31	13,634	6,657	6,977
Illinois.....	1,694	4,490	4,999	3,782	269	105	184	50,008	24,273	25,735
Michigan.....	2,438	2,404	3,757	2,812	194	114	80	34,002	15,313	18,689
Wisconsin.....	568	1,129	1,812	1,410	150	84	66	14,886	7,189	7,697
West North Central:										
Minnesota.....	1,021	1,330	2,522	1,994	199	76	123	20,415	10,088	10,327
Iowa.....	635	1,705	1,921	1,621	158	72	86	12,537	6,180	6,357
Missouri.....	1,024	2,981	2,167	1,646	114	74	40	26,492	13,231	13,261
North Dakota.....	877	539	948	685	165	44	121	3,256	1,630	1,626
South Dakota.....	751	1,080	964	715	70	50	20	3,084	1,641	1,443
Nebraska.....	925	1,238	1,414	1,111	171	80	91	7,060	3,502	3,558
Kansas.....	1,148	2,649	2,308	1,715	191	107	84	6,992	3,428	3,564
South Atlantic:										
Delaware.....	129	148	297	219	19	11	8	437	221	216
Maryland.....	766	857	871	609	47	26	21	8,733	4,355	4,378
Dist. of Columbia.....	13	3	403	331	1	1	-----	-----	-----	-----
Virginia.....	1,711	2,992	1,207	868	100	45	55	9,943	4,995	4,948
West Virginia.....	554	2,038	505	385	50	24	26	8,863	4,412	4,451
North Carolina.....	1,038	2,090	1,635	1,170	101	59	42	10,627	5,345	5,282
South Carolina.....	858	1,661	540	390	61	32	29	3,278	1,649	1,629
Georgia.....	1,030	2,343	1,276	901	95	63	32	19,250	9,680	9,570
Florida.....	2,222	3,724	3,295	2,079	137	101	36	28,171	13,427	14,744
East South Central:										
Kentucky.....	679	2,028	644	478	48	22	26	12,761	6,385	6,376
Tennessee.....	903	1,805	1,018	721	48	37	11	17,834	8,923	8,911
Alabama.....	1,513	1,955	821	597	62	39	23	10,928	5,465	5,463
Mississippi.....	751	971	957	636	74	47	27	4,724	2,208	2,426
West South Central:										
Arkansas.....	594	1,331	1,173	812	79	50	29	6,179	3,061	3,118
Louisiana.....	1,078	1,235	1,543	1,021	75	40	35	23,063	9,602	13,461
Oklahoma.....	1,383	2,444	1,923	1,402	117	77	40	12,919	6,515	6,404
Texas.....	5,360	9,794	7,555	5,552	477	210	267	46,415	22,937	23,478
Mountain:										
Montana.....	1,420	1,741	1,196	927	151	62	89	4,358	2,355	2,003
Idaho.....	848	1,097	850	639	104	54	110	3,997	2,214	1,783
Wyoming.....	1,395	1,871	486	367	59	26	33	3,234	1,843	1,391
Colorado.....	808	2,717	1,283	942	95	47	48	11,439	5,564	5,875
New Mexico.....	1,490	3,244	854	630	100	41	59	5,359	2,974	2,885
Arizona.....	1,280	2,337	1,346	838	151	57	94	11,134	6,476	6,458
Utah.....	1,002	2,165	562	388	53	40	13	8,198	5,078	3,120
Nevada.....	664	797	458	320	57	27	30	7,149	4,461	2,688
Pacific:										
Washington.....	1,052	1,063	2,361	1,722	179	74	105	15,914	7,745	8,169
Oregon.....	920	2,085	1,089	1,256	116	49	67	13,714	6,834	6,830
California.....	3,321	6,054	11,744	7,970	369	224	145	69,886	32,681	37,205
Alaska.....	6,673	-----	1,697	1,090	281	161	120	7,791	5,813	1,978
Hawaii.....	1,419	1,024	187	113	22	16	6	8,931	4,408	4,523
Other territorial.....	-----	-----	181	87	11	9	2	9,777	5,154	4,623

¹ L/MF—Low/Medium Frequency; radio navigational aids operating between 200 and 400 kilocycles.

No. 749.—PETROLEUM PIPELINE COMPANIES—SUMMARY OF SELECTED FINANCIAL
DATA: 1930 TO 1956

[In thousands of dollars, except miles of line operated]

YEAR	Miles of line operated	Investment in carrier property	Other invest- ments	Total current assets	Pipeline operating revenues	Pipeline operating expenses	Pipeline operating income	Net in- come
1930.....	88,727	772,711	96,184	133,428	237,910	99,363	121,816	123,741
1935.....	92,037	763,009	119,071	46,949	197,368	89,364	79,586	78,249
1940.....	100,156	841,977	64,095	47,163	225,760	101,919	82,558	79,857
1941.....	105,435	885,317	45,687	56,287	251,685	110,448	81,604	79,468
1942.....	106,485	918,848	44,525	81,259	245,061	123,507	58,332	56,845
1943.....	108,783	965,464	39,891	107,501	276,652	148,448	62,620	61,302
1944.....	111,615	1,000,741	62,767	104,150	310,194	172,368	67,840	65,715
1945.....	113,351	1,042,523	86,713	115,370	304,268	191,668	67,127	65,941
1946.....	116,544	1,106,454	69,991	103,819	293,723	183,869	56,485	56,094
1947.....	119,298	1,225,168	56,455	126,621	325,224	214,682	54,415	53,145

Section 22

Waterways, Water Traffic, and Shipping

This section presents statistics concerning water transportation, including inland waterways and ocean-borne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. The principal sources of these data are two annual reports issued by the Corps of Engineers of the Department of the Army entitled *Waterborne Commerce of the United States* and the *Annual Report of the Chief of Engineers*, Part 2; the Bureau of the Census monthly and annual *U. S. Waterborne Foreign Trade*; and the Bureau of Customs annual *Merchant Marine Statistics*. Data in this field are also presented in the *Annual Report of Commission of Navigation*, issued by the Maritime Administration of the Department of Commerce; *The Bulletin* issued annually by the American Bureau of Shipping; and the *Annual Summary of Merchant Ships Launched in the World* and the *Register Book* published by Lloyd's Register of Shipping of London, England. A basic source for historical data is the Bureau of the Census, *Foreign Commerce and Navigation of the United States*, which was issued annually through 1946.

Data relating to merchandise exports and imports, their classification, dollar values, and countries of origin and destination may be found in section 32, Foreign Commerce.

Units of measurement.—Cargo tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. It represents substantially space available for

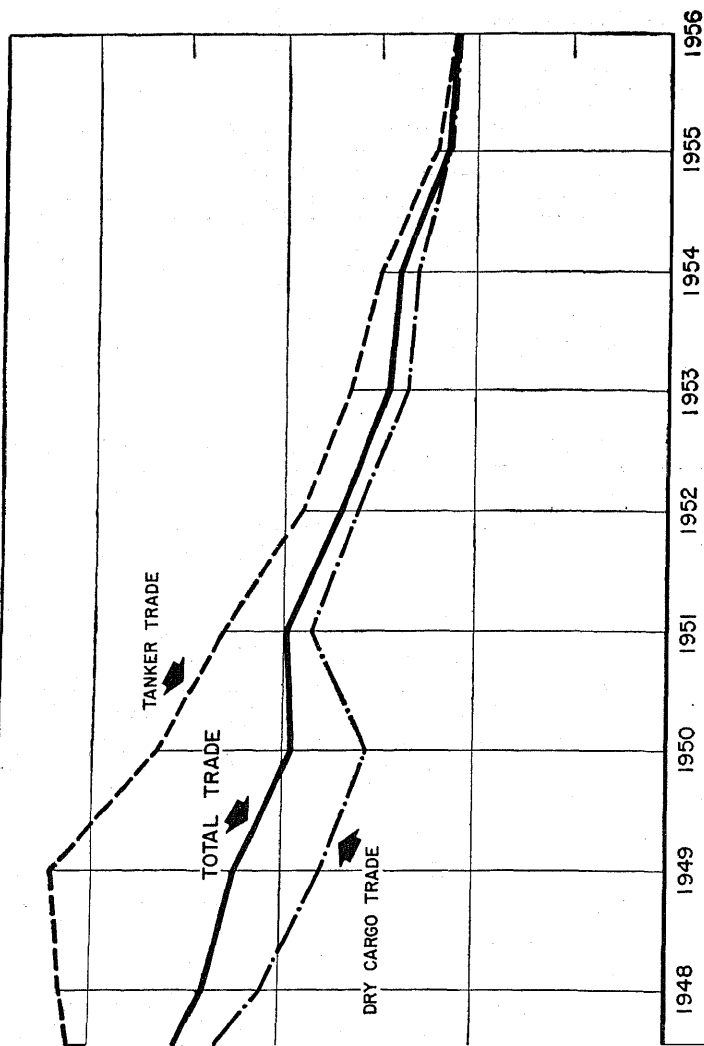
cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Dead-weight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is therefore the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft except tanker vessels, and shipments by tanker vessels comprise all types of cargo both liquid and dry carried by tanker vessels.

A vessel is reported as entered at the first port in the United States at which entry is made, regardless of whether any cargo is unladen at that port. A vessel is reported as cleared from the last port where outward cargo is completed or where the vessel cleared in ballast. Army and Navy vessels entering or clearing without commercial cargo and vessels touching at a United States port in distress, or for other temporary

PERCENT OF CARGO TONNAGE CARRIED ON AMERICAN FLAG VESSELS IN THE UNITED STATES
EXPORT AND IMPORT TRADE: 1946 TO 1956

[See table 753]



Commerce, Bureau of the Census.

No. 751.—WATERBORNE COMMERCE OF THE UNITED STATES—CARGO TONNAGE, FOREIGN AND DOMESTIC: 1940 TO 1956

[In thousands of short tons. Import and export figures differ slightly from those shown in tables 753 and 754, due to minor differences in basic concepts which are explained in the source. See also *Historical Statistics, 1789-1945*, series K 132-145]

CLASS	1940	1945	1950	1953	1954	1955	1956
Foreign commerce, total.....	111,255	172,094	169,225	217,396	213,844	271,103	326,690
Imports, through seaports.....	40,740	44,526	96,299	120,595	123,503	144,276	163,349
Exports, through seaports.....	49,568	100,333	43,040	63,780	65,244	95,404	126,448
Imports, Great Lakes ports.....	4,118	6,511	5,083	7,387	5,921	5,681	10,865
Exports, Great Lakes ports.....	16,829	20,724	23,603	25,635	19,176	22,742	26,027
Domestic commerce, net total¹.....	496,645	446,812	651,359	706,151	653,796	745,033	766,223
Coastwise, between ports.....	157,027	90,705	182,544	188,758	187,240	195,718	205,910
Great Lakes, between ports.....	141,103	157,900	169,881	188,621	145,364	184,809	173,991
Local traffic of seaports, Great Lakes ports, and communities on inland waterways.....	97,632	97,822	106,906	102,562	102,719	112,863	114,364
Traffic between ports and river ports ²	70,217	87,073	190,789	224,957	217,061	249,093	269,734
Traffic between ports of Territories and possessions of the United States ³			1,239	1,253	1,411	1,951	2,225
Net total, foreign and domestic.....	607,900	618,906	820,584	923,548	867,640	1,016,136	1,092,913

¹ For 1940 and 1945, approximate net total, excluding duplications in domestic traffic.

² Represents traffic among ports and communities utilizing inland waterways exclusively.

³ Included in other types of domestic traffic prior to 1950.

Source: Department of the Army, Corps of Engineers; figures through 1953, *Annual Report of Chief of Engineers* Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 752.—UNITED STATES RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANS- PORTATION: 1947 TO 1957

[In millions of dollars. Data are international transportation transactions recorded for balance of payments purposes (see table 1123). Receipts include freight on exports carried by U. S. operated carriers and foreign carrier expenditures in U. S. ports. Payments include freight on imports carried by foreign carriers and U. S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U. S. imports carried by U. S. carriers is a domestic rather than an international transaction]

ITEM	1947	1950	1951	1952	1953	1954	1955	1956	1957 (prel.)
Total receipts.....	1,738	1,033	1,556	1,488	1,198	1,171	1,420	1,619	1,549
Ocean transportation.....	1,593	859	1,331	1,242	971	943	1,151	1,321	1,533
Export freight earnings.....	1,154	380	679	550	367	347	448	536	599
Privately controlled shipments:									
Coal.....	257	1	129	73	9	6	26	22	36
Grain.....	67	23	142	57	21	21	44	81	70
Other dry cargo.....	608	311	358	373	302	304	365	414	461
Tanker.....	29	12	28	21	18	12	12	19	32
Military-controlled shipments ¹	193	33	22	26	17	4	1		
Freight earnings on shipments between foreign countries.....	100	110	201	175	103	98	106	138	185
Passenger fares.....	39	20	18	24	21	24	23	25	26
Port expenditures.....	281	313	411	462	465	469	562	605	709
Charter hire.....	19	36	22	31	15	5	12	17	14
Other transportation.....	145	174	225	246	227	228	269	298	316
Total payments.....	583	818	974	1,115	1,081	1,026	1,204	1,432	1,438
Ocean transportation.....	456	643	787	911	864	805	946	1,142	1,122
Import freight payments.....	141	295	384	428	423	369	480	627	623
Dry cargo.....	133	255	279	318	311	288	358	449	437
Tanker.....	8	40	105	110	112	81	122	178	186
Passenger fares.....	47	121	102	133	134	130	138	154	141
Port expenditures.....	231	138	183	190	142	141	153	168	196
Charter hire.....	37	89	118	160	165	165	175	193	162
Other transportation.....	127	175	187	204	217	221	258	290	316
Receipts balance.....	1,155	215	582	373	117	145	216	187	411

¹ Represents freight on economic aid only. Freight on military end items not included.

Source: Department of Commerce, Office of Business Economics; *Balance of Payments of the United States*, 1958 edition, a supplement to the *Survey of Current Business*; *Survey of Current Business*, March 1958, and records.

NO. 753.—WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL: 1925 TO 1957

[In thousands of short tons. Excludes cargoes (small in aggregate) carried by ships of less than 100 tons gross capacity prior to 1946. Beginning 1946, excludes U. S. Army and Navy cargo, and includes Alaska, Hawaii, and Puerto Rico. Beginning July 1950, excludes commodities classified for security reasons as "special category." From July 1953 through December 1955 and beginning July 1956, exports exclude shipments under \$500 in value regardless of shipping weight; for January through June 1956, exclude those under \$1,000 regardless of shipping weight. Beginning 1954, imports exclude shipments under 2,000 pounds shipping weight]

YEAR AND DISTRICT	Total trade	Percent by U. S. flag	IMPORTS BY FLAG OF CARRIER VESSELS				EXPORTS BY FLAG OF CARRIER VESSELS			
			Total	U. S.	Foreign	Percent U. S.	Total	U. S.	Foreign	Percent U. S.
TOTAL										
1925-----	103,938	39.8	48,311	23,760	24,551	49.2	55,626	17,603	38,024	31.6
1930-----	108,968	40.8	53,270	27,801	25,469	52.2	55,699	16,703	38,995	30.0
1935-----	80,765	31.7	38,042	15,820	22,221	41.6	42,723	9,789	32,935	22.9
1940-----	105,596	28.7	44,667	17,322	27,345	38.8	60,929	12,939	47,990	21.2
1945 ¹ -----	101,030	68.4	39,426	31,415	8,011	79.7	61,603	37,729	23,874	61.2
1950-----	159,389	39.3	96,703	42,268	54,435	43.7	62,635	20,379	42,306	32.5
1951-----	216,292	39.8	100,603	42,836	57,767	42.6	115,690	43,232	72,458	37.4
1952-----	210,469	34.3	107,421	41,683	65,738	38.8	103,048	30,417	72,630	29.5
1953-----	199,552	29.0	119,003	38,468	80,535	32.3	80,549	19,448	61,101	24.1
1954-----	198,863	27.5	120,685	36,291	84,395	30.1	78,178	18,378	59,800	23.5
1955-----	253,568	23.5	141,123	37,409	103,715	26.5	112,445	22,083	90,361	19.6
1956-----	304,227	21.9	159,472	39,394	120,078	24.7	144,755	27,304	117,451	18.9
1957-----	337,679	18.8	172,287	34,584	137,703	20.1	165,392	28,911	136,481	17.5
DRY CARGO										
1945 ¹ -----	63,083	70.9	21,716	17,053	4,663	78.5	41,367	27,672	13,695	66.9
1950-----	100,189	31.2	46,611	14,823	31,788	31.8	53,578	16,429	37,149	30.7
1951-----	151,285	37.1	50,053	17,792	32,261	35.5	101,232	38,366	62,866	37.9
1952-----	139,101	32.2	50,368	18,517	31,851	36.8	88,733	26,275	62,458	29.6
1953-----	124,445	26.7	57,302	17,201	40,101	30.0	67,143	16,008	51,135	23.8
1954-----	124,742	25.9	57,388	16,507	40,881	28.8	67,354	15,796	51,558	23.5

No. 755.—WATERBORNE IMPORTS—SHIPPING WEIGHT ON DRY-CARGO AND TANKER
VESSELS, BY TRADE AREA: 1955 TO 1957

[In thousands of short tons. Represents general imports. See headline, table 753. See 1951 Abstract, table 641, for latest data available by countries]

TRADE AREA	1955			1956			1957		
	Total	On U. S. vessels	Per- cent U. S.	Total	On U. S. vessels	Per- cent U. S.	Total	On U. S. vessels	Per- cent U. S.
DRY CARGO									
Trade area, total.....	68,437.0	19,854.9	29.0	79,548.9	21,044.9	26.5	86,744.8	19,579.5	22.6
Foreign except Canadian.....	46,594.1	13,391.7	28.7	53,707.8	14,723.6	27.4	61,648.7	14,592.4	23.7
Caribbean.....	19,282.3	4,742.2	24.6	23,156.3	5,529.8	23.9	28,417.0	5,523.0	19.4
East Coast South America.....	2,460.7	617.9	25.2	2,945.4	897.6	30.5	3,760.6	819.0	21.8
West Coast South America.....	5,219.1	2,430.6	46.6	6,062.8	2,208.0	36.4	8,319.0	2,659.9	32.0
West Coast Central America and Mexico.....	1,105.6	680.5	61.6	1,037.2	457.2	44.1	1,271.7	481.5	37.9
Gulf Coast Mexico.....	405.8	24.1	5.9	561.7	148.6	26.4	922.0	171.5	18.6
United Kingdom and Eire.....	855.7	263.8	30.8	917.6	273.2	29.8	910.3	297.4	32.7
Baltic, Scandinavia, Iceland and Greenland.....	2,522.5	297.0	11.8	2,355.5	156.2	6.6	1,818.9	68.0	3.7
Bayonne-Hamburg Range.....	3,016.1	466.8	15.5	3,589.8	620.9	17.3	3,487.4	539.5	15.5
Portugal and Spanish Atlantic.....	240.8	69.0	28.7	245.7	63.9	26.0	188.3	47.0	25.0
Azores, Mediterranean, and Black Sea.....	1,536.8	505.6	36.8	1,931.6	620.7	32.1	1,798.8	524.4	29.2
West Coast Africa.....	2,195.8	269.7	12.3	2,710.0	337.8	12.5	2,408.5	277.7	11.5
South and East Africa.....	1,431.9	893.6	62.4	1,579.9	980.6	62.1	1,908.6	1,054.0	55.2
Australasia.....	388.8	140.9	36.2	499.4	208.4	41.7	595.3	252.2	42.4
India, Persian Gulf, and Red Sea.....	1,852.6	531.2	28.7	1,774.8	651.2	36.7	1,775.3	468.3	26.4
Malaya and Indonesia.....	708.1	271.5	38.3	674.6	275.5	40.8	584.9	267.2	45.7
South China, Formosa, and Philippines.....	2,576.4	817.6	31.7	2,709.1	942.9	34.1	2,609.6	827.1	31.7
North China, including Shang- hai and Japan.....	795.0	309.9	39.0	897.0	351.5	39.2	872.9	314.7	36.1
Canadian	21,843.0	6,463.2	29.6	25,841.1	6,321.2	24.5	25,096.1	4,987.1	19.9

No. 756.—WATERBORNE EXPORTS—SHIPPING WEIGHT ON DRY-CARGO AND TANKER VESSELS, BY TRADE AREA: 1955 TO 1957

[In thousands of short tons. Covers domestic and foreign merchandise. See headnote, table 753. See 1951 Abstract, table 641, for latest data available by countries]

TRADE AREA	1955			1956			1957		
	Total	On U. S. vessels	Per cent U. S.	Total	On U. S. vessels	Per cent U. S.	Total	On U. S. vessels	Per cent U. S.
DRY CARGO									
Trade area, total.....	100,566.1	19,704.6	19.6	128,384.9	24,083.7	18.8	142,591.5	25,437.7	17.8
Foreign except Canadian.....	78,603.9	14,837.9	18.9	103,606.9	17,703.1	17.1	118,433.4	19,612.5	16.6
Caribbean.....	3,936.8	1,155.1	29.3	4,390.2	1,208.5	27.5	5,637.6	1,519.7	27.0
East Coast South America.....	2,724.1	576.0	21.1	4,617.6	957.6	20.7	4,401.2	900.9	20.5
West Coast South America.....	1,299.1	534.8	41.2	1,646.3	654.3	39.7	1,693.0	711.4	42.0
West Coast Central America and Mexico.....	366.2	112.2	30.6	337.5	101.4	30.0	363.9	111.7	30.7
Gulf Coast Mexico.....	232.1	2.7	1.2	354.9	0.8	0.2	537.3	12.8	2.4
United Kingdom and Eire.....	10,555.0	1,520.0	14.4	7,910.7	1,108.5	14.0	6,702.5	1,143.2	17.1
Baltic, Scandinavia, Iceland, and Greenland.....	3,477.0	487.7	14.0	4,077.1	453.3	11.1	4,713.7	604.6	12.8
Bayonne-Hamburg Range.....	24,523.4	2,260.7	9.2	40,125.2	3,624.5	9.0	45,717.9	3,605.5	7.9
Portugal and Spanish Atlantic.....	570.0	217.8	38.2	1,032.1	232.7	22.5	1,443.3	329.1	22.8
Azores, Mediterranean, and Black Sea.....	14,760.2	2,782.6	18.9	18,086.3	2,726.8	15.1	20,062.3	3,013.4	15.0
West Coast Africa.....	548.9	165.6	30.2	715.0	270.5	37.8	626.7	218.6	34.9
South and East Africa.....	855.8	458.1	53.5	731.5	430.8	58.9	812.1	535.1	65.9
Australasia.....	935.7	149.2	15.9	773.9	141.9	18.3	753.9	170.5	22.6
India, Persian Gulf, and Red Sea.....	1,305.3	559.8	42.9	2,742.9	920.7	33.6	4,063.6	1,713.6	36.7
Malaya and Indonesia.....	306.1	107.8	35.2	675.0	294.2	43.6	433.3	153.7	35.5
South China, Formosa, and Philippines.....	1,622.0	852.3	52.5	1,919.4	999.0	52.0	2,087.1	1,056.6	50.6
North China, including Shanghai and Japan.....	10,586.3	2,895.9	27.4	13,471.8	3,578.2	26.6	17,784.0	3,812.2	21.4
Canadian.....	21,962.3	4,866.7	22.2	24,778.1	6,380.6	25.8	24,158.2	5,825.2	24.1
Pacific Canada.....	413.4	143.1	34.6	413.4	140.2	33.9	304.8	122.0	40.0
Great Lakes Canada.....	20,446.7	4,715.9	23.1	23,259.8	6,213.1	26.7	22,624.1	5,675.0	25.1
Atlantic Canada and Newfoundland.....	1,102.1	7.7	0.7	1,105.0	27.4	2.5	1,229.3	28.2	2.3
TANKER CARGO									
Trade area, total.....	11,880.5	2,378.9	20.0	16,370.2	3,219.9	19.7	22,800.0	3,472.7	15.2
Foreign except Canadian.....	9,228.9	951.5	10.3	13,923.7	1,436.2	10.3	20,509.1	2,052.0	10.0
Caribbean.....	1,478.2	404.3	31.4	1,731.5	530.7	29.6	1,901.6	500.8	26.3
East Coast South America.....	415.5	28.2	6.8	463.7	75.3	16.2	673.0	83.7	12.4
West Coast South America.....	425.8	83.9	19.7	157.4	16.2	10.3	157.1	34.0	21.6
West Coast Central America and Mexico.....	1,075.3	97.6	9.1	923.3	39.6	4.3	586.6	49.9	8.5
Gulf Coast Mexico.....	18.6	2.7	14.5	84.5	2.0	2.4	316.0	10.7	3.4
United Kingdom and Eire.....	1,518.9	16.4	1.1	2,615.7	-----	-----	5,236.4	193.3	3.7
Baltic, Scandinavia, Iceland, and Greenland.....	156.4	8.3	5.3	433.9	11.4	2.6	911.7	30.5	3.3
Bayonne-Hamburg Range.....	1,872.4	169.4	9.0	4,572.6	540.0	11.8	5,532.9	349.2	6.3
Portugal and Spanish Atlantic.....	32.1	7.3	22.7	73.1	-----	-----	164.0	2.5	1.5
Azores, Mediterranean, and Black Sea.....	134.4	2.2	1.6	933.8	101.4	10.9	1,974.6	287.9	14.6
West Coast Africa.....	52.9	5.5	10.4	157.5	0.0	0.0	212.7	0.0	0.0

No. 757.—WATERBORNE IMPORTS AND EXPORTS—VALUE OF TRADE, BY COASTAL DISTRICT: 1954 to 1956

[In millions of dollars]

TYPE OF VESSEL AND COASTAL DISTRICT	TOTAL TRADE			EXPORTS			IMPORTS		
	1954	1955	1956	1954	1955	1956	1954	1955	1956
Total	16,204	17,810	20,774	8,539	9,459	11,485	7,665	8,351	9,289
Atlantic.....	10,747	12,132	13,585	5,162	5,979	6,838	5,585	6,153	6,747
Dry cargo.....	9,913	11,164	12,479	5,096	5,907	6,757	4,817	5,257	5,722
Tanker.....	835	970	1,108	67	73	82	768	897	1,026
Gulf.....	3,064	3,091	4,026	2,004	2,034	2,843	1,060	1,057	1,183
Dry cargo.....	2,825	2,842	3,561	1,813	1,840	2,441	1,012	1,002	1,120
Tanker.....	240	250	465	191	195	402	49	55	63
Pacific.....	1,842	2,011	2,492	1,075	1,128	1,431	767	883	1,061
Dry cargo.....	1,717	1,859	2,281	995	1,040	1,349	722	819	932
Tanker.....	126	152	211	81	88	82	45	64	129
Great Lakes.....	550	576	672	298	318	373	252	258	299
Dry cargo.....	529	551	648	277	296	352	252	255	296
Tanker.....	22	25	24	21	22	21	1	3	3

Source: Department of Commerce, Bureau of the Census; *United States Foreign Waterborne Commerce*, annual review.

No. 758.—WATERBORNE IMPORTS AND EXPORTS—SHIPPING WEIGHT OF PRINCIPAL COMMODITIES IN OCEANBORNE TRADE: 1955 AND 1956

[In thousands of short tons. Exports exclude shipments of under \$500 in value for the periods January–December 1955 and July–December 1956, and under \$1,000 in value for the period January–June 1956; imports exclude shipments of under 2,000 pounds shipping weight. "N. e. c." means not elsewhere classified]

COMMODITY	EXPORTS		COMMODITY	IMPORTS	
	1955	1956		1955	1956
Bituminous coal.....	34,166	47,653	Residual fuel oil.....	24,610	26,714
Wheat.....	6,584	12,232	Iron ore and concentrates.....	20,976	26,309
Iron and steel scrap.....	4,374	5,321	Aluminum ores and concentrates.....	5,976	6,970
Gas oil and distillate fuel oil.....	2,563	3,885	Gypsum or plaster rock.....	3,905	4,351
Crude petroleum.....	752	3,463	Sugar.....	3,954	4,173
Residual fuel oil.....	4,380	3,320	Manganese.....	2,405	2,676
Phosphate fertilizer material.....	2,434	3,233	Chrome.....	1,850	2,223
Iron and steel mill products.....	3,481	3,054	Molasses, inedible.....	2,402	1,982
Corn.....	2,915	2,966	Bananas.....	1,639	1,654
Anthracite coal.....	721	2,886	Standard newsprint paper.....	1,338	1,513
Barley and rye.....	1,819	2,259	Iron and steel mill products.....	949	1,488
Soybeans, inedible.....	1,798	1,762	Coffee, raw or green.....	1,316	1,427
Sulphur.....	1,734	1,740	Motor fuel gasoline.....	465	960
Other grains.....	1,758	1,539	Pulpwood.....	1,053	956
Lubricating oils and greases.....	1,363	1,381	Nitrogenous fertilizer.....	1,005	915
Cotton, unmanufactured.....	680	1,253	Gas oil and distillate fuel oil.....	790	811
Wheat flour and semolina.....	1,008	1,120	Nonmetallic minerals and manufac- tures, n. e. c.....	706	764
Iron ore and concentrates.....	324	1,103	Lumber and shingles.....	811	739
Industrial chemicals, n. e. c.....	895	992	Petroleum products, n. e. c.....	1,070	719
Coke, including petroleum coke.....	616	990	Crude rubber and allied gums.....	781	704
Motor fuel and gasoline.....	473	946	Copper ore and concentrates.....	635	681
Rice.....	559	896	Petroleum asphalt.....	615	680
Nitrogenous fertilizer materials.....	664	859	Building cement.....	722	676
Inedible animal products, n. e. c.....	688	795	Nonferrous ores, metals, scrap, n. e. c.....	510	582
Motor vehicles.....	675	645			
Crude petroleum.....	42,502	48,899			

Source: Department of Commerce, Bureau of the Census; *United States Foreign Waterborne Commerce*,

No. 759.—COMMERCE OF SELECTED UNITED STATES PORTS: 1956

(In thousands of short tons (cargo). Excludes Great Lakes. In addition to commerce here shown, many ports have (a) commerce with ports on internal rivers and canals; (b) purely local port traffic]

PORT	Im-ports	Ex-ports	COASTWISE		PORT	Im-ports	Ex-ports	COASTWISE	
			Re-ceipts	Ship-ments				Re-ceipts	Ship-ments
Total !-----	163,349	126,448	205,833	205,884	GULF COAST PORTS				
ATLANTIC COAST PORTS					Charlotte Harbor, Fla.....	258		605	
Portland Harbor, Maine.....	12,041	207	3,169	411	Tampa Harbor, Fla.....	973	2,881	4,636	1,558
Portsmouth Harbor, N. H.....	437		891	1	Port St. Joe Harbor, Fla.....	6	10	1,771	8
Salem Harbor, Mass.....	159		1,134	7	Panama City Harbor, Fla.....	33	50	308	117
Boston, Mass.....	5,483	1,103	12,007	1,086	Fla.....	73	150	2	11
New Bedford and Fairhaven Harbor, Mass.....	41	1	224	9	Pensacola Harbor, Fla.....	6,730	1,489	649	1,205
Fall River Harbor, Mass.....	535		1,529	51	Mobile Harbor, Ala.....	4,456	8,050	705	9,220
Providence River and Harbor, R. I.....	1,071	85	6,344	483	New Orleans, La.....	2,749	1,640	74	6,568
New London Harbor, Conn.....	506	5	428	319	Baton Rouge, La.....	106	1,230	284	7,105
New Haven Harbor, Conn.....	760		5,837	1,193	Lake Charles, La. ³	397	4,032	29	1,271
Bridgeport Harbor, Conn.....	329	71	2,064	434	Galveston, Tex.....	41	529	457	8,771
Norwalk Harbor, Conn.....			539		Texas City, Tex.....	2,734	6,770	822	22,889
Stamford Harbor, Conn.....			1,000	22	Houston, Tex.....	1,299	1,360	136	10,031
New York Harbor, N. Y.....	31,684	9,165	44,876	11,356	Port Aransas, Tex.....	10	1,341		7,924
Hempstead Harbor, N. Y.....			2,439	4,411	Freeport, Tex.....	13	631	25	2,323
Huntington Harbor, N. Y.....			410		Brazos Island Harbor, Tex.....	83	558	56	623
Port Jefferson Harbor, N. Y.....			821	(²)	Beaumont, Tex.....	33	1,172	1,416	18,405
Albany, N. Y.....	210	1,076	4,016	7	Port Arthur, Tex.....	(²)	2,123	2,250	16,988
Northport Bay and Harbor, N. Y.....			21	3,500	PACIFIC COAST PORTS				
Delaware River and tributaries.....	40,003	6,123	25,598	6,987	San Diego Harbor, Calif.....	149	93	1,631	8
Baltimore Harbor and Channels, Md.....	20,366	9,665	7,993	1,813	Long Beach Harbor, Calif.....	847	2,520	656	2,573
Norfolk Harbor, Va.....	3,121	24,317	5,226	5,489	Los Angeles Harbor, Calif.....	3,318	2,292	5,748	7,575
					San Francisco Bay Area, Calif.....	5,127	2,965	11,090	10,429
					Crescent City Harbor, Calif.....			83	207
					Humboldt Harbor and Bay, Calif.....	1	53	221	170
					Stockton, Calif.....	46	1,489	29	318
					Coos Bay, Oreg.....	(²)	239	176	761

No. 760.—COMMERCE OF SELECTED GREAT LAKES PORTS: 1950 TO 1956

[In thousands of short tons (cargo). Comprises foreign, lakewise, and coastwise shipping]

PORT	RECEIPTS				SHIPMENTS			
	1950	1954	1955	1956	1950	1954	1955	1956
Total	175, 637	151, 412	193, 591	184, 934	193, 511	164, 572	207, 538	200, 044
Ashland Harbor, Wis.....	685	450	451	508	5, 422	3, 999	4, 527	3, 840
Ashtabula, Ohio.....	10, 447	5, 262	9, 455	9, 528	3, 302	2, 969	3, 586	3, 613
Buffalo, N. Y.....	16, 458	15, 875	19, 318	19, 097	2, 417	1, 873	2, 436	1, 832
Chicago, Ill., Port of.....	15, 813	11, 780	16, 872	16, 325	4, 093	5, 744	6, 349	8, 301
Cleveland, Ohio.....	17, 375	14, 771	19, 744	16, 338	382	349	358	636
Conneaut Harbor, Ohio.....	9, 562	9, 327	14, 139	10, 053	2, 522	806	994	996
Detroit, Mich.....	21, 090	18, 940	24, 295	24, 983	1, 298	1, 591	1, 626	1, 608
Duluth-Superior, Minn. and Wis.....	10, 117	6, 175	7, 142	7, 873	53, 009	42, 929	61, 156	51, 560
Indiana Harbor, Ind.....	10, 355	11, 129	13, 695	12, 396	5, 182	5, 863	6, 386	6, 745
Lorain Harbor, Ohio.....	8, 153	5, 211	5, 563	5, 331	3, 264	2, 219	2, 258	2, 183
Milwaukee Harbor, Wis.....	7, 357	6, 410	7, 157	6, 942	1, 421	1, 364	1, 532	1, 649
Sandusky Harbor, Ohio.....	1	2	1	14	8, 822	8, 062	7, 961	8, 265
Toledo Harbor, Ohio.....	4, 640	4, 095	6, 504	6, 821	29, 307	23, 042	28, 710	28, 620
Two Harbors (Agate Bay), Minn.....	216	84	99	106	18, 948	14, 224	19, 004	15, 932
All other.....	43, 368	41, 895	49, 156	48, 619	53, 122	49, 538	60, 705	64, 264

Source: Department of the Army, Corps of Engineers; figures through 1953, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 761.—FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1940 TO 1956

[In thousands of ton-miles]

SYSTEM	1940	1945	1950	1954 ¹	1955	1956
Total	118, 056, 969	142, 737, 242	163, 343, 977	173, 678, 726	216, 507, 665	219, 977, 791
Atlantic coast rivers.....	1, 858, 685	1, 036, 083	6, 497, 249	23, 091, 189	27, 042, 335	32, 306, 044
Gulf coast rivers.....	593, 451	345, 458	1, 228, 645	12, 479, 509	13, 860, 378	15, 020, 524
Pacific coast rivers.....	1, 228, 652	1, 555, 230	1, 686, 494	4, 817, 574	4, 735, 991	5, 198, 144
Mississippi River System ²	13, 934, 427	19, 595, 193	33, 597, 816	42, 609, 492	52, 019, 333	56, 785, 586
Other waterways.....	9, 524	9, 277	7, 720	6, 075	4, 530	2, 976
Canals and connecting channels ³	4, 787, 222	7, 167, 905	8, 638, 713			
Great Lakes system.....	95, 645, 008	113, 028, 096	111, 687, 340	91, 174, 887	118, 845, 098	110, 664, 517

¹ Coverage increased approximately 4 percent.

² Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers.

³ Except Great Lakes. For 1954-1956, ton-miles distributed by inland waterway system.

Source: Department of the Army, Corps of Engineers; figures through 1953, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 762.—FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1956

[In thousands of ton-miles]

AREA	Total	DOMESTIC				FOREIGN	
		Lakewise	Coastwise	Internal	Local and intraport	Canadian	Overseas
Total	110, 664, 517	93, 616, 115	60, 414	748, 889	126, 851	15, 563, 396	548, 852
Lake Superior.....	33, 436, 519	29, 868, 167	-----	259	163	3, 565, 372	2, 558
St. Marys River.....	6, 224, 727	5, 345, 270	-----	46	-----	878, 944	467
Lake Michigan, including Port of Chicago ¹	19, 150, 622	17, 218, 646	9, 678	447, 374	92, 247	1, 266, 644	116, 033
Lake Huron.....	25, 415, 719	22, 073, 378	7, 193	20, 072	2, 004	3, 215, 303	97, 769
St. Clair River, including channels in Lake St. Clair.....	6, 205, 651	5, 367, 530	1, 667	5, 766	3, 064	804, 699	22, 925
Detroit River.....	3, 493, 847	3, 004, 521	2, 180	5, 001	4, 582	462, 965	14, 593
Lake Erie, including upper Niagara River.....	14, 231, 255	10, 622, 918	22, 195	110, 636	24, 787	3, 327, 887	122, 832
Welland Canal.....	418, 765	12, 808	2, 813	20, 401	3	367, 238	15, 502
Lake Ontario, including lower Niagara River.....	1, 476, 143	98, 357	14, 688	121, 423	1	1, 149, 811	91, 863
St. Lawrence River, between St. Regis, Quebec, and Lake Ontario.....	611, 269	4, 520	-----	17, 911	-----	524, 533	64, 305

¹ Comprises Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, and Calumet Harbor and River.

Source: Department of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.

No. 763.—FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1940 TO 1956

[In thousands. Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

YEAR	TRAFFIC IN SHORT TONS					TRAFFIC IN TON-MILES				
	Total	Inland	Coast-wise	Foreign		Total	Inland	Coast-wise	Foreign	
				Imports	Exports				Imports	Exports
1940-----	88,980	73,174	9,001	3,157	3,649	13,934,427	11,578,418	1,523,144	385,444	447,421
1945-----	95,543	82,081	4,954	3,114	5,394	19,595,193	17,737,830	849,230	340,228	667,905
1950-----	138,145	114,697	13,877	4,395	5,176	33,597,816	30,281,638	2,074,088	599,288	642,802
1951-----	154,637	128,575	14,192	5,069	6,801	36,754,185	33,003,533	2,193,272	692,411	864,969
1952-----	157,673	132,433	12,553	5,515	7,173	37,066,990	33,302,941	2,057,735	799,448	906,866
1953-----	169,392	142,569	14,162	5,762	6,900	42,357,919	38,289,640	2,333,601	825,018	908,660
1954-----	162,833	136,392	13,830	5,252	7,359	42,609,492	38,703,034	2,118,425	812,446	975,587
1955-----	194,363	163,760	16,060	6,296	8,248	52,019,333	47,417,668	2,473,056	1,046,148	1,082,461
1956-----	212,818	179,257	10,597	7,303	9,691	56,785,587	51,733,286	2,508,090	1,232,001	1,312,210

Source: Department of the Army, Corps of Engineers; figures through 1953, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 764.—COMMERCE ON SELECTED RIVERS, CANALS, AND CONNECTING CHANNELS OF THE UNITED STATES: 1940 TO 1956

[In thousands of short tons (cargo). Excludes general ferry traffic and non-regulated car ferry traffic]

WATERWAY	1940	1945	1950	1954	1955	1956
RIVERS						
Hudson River, N. Y. (Mouth of Spuyten Duyvil Creek to Waterford, N. Y.)	11,516	5,747	14,574	18,527	20,203	21,178
Delaware River, Philadelphia, Pa., to Trenton, N. J.	4,410	4,261	7,036	9,828	11,010	11,436
Delaware River, Philadelphia, Pa., to the sea	27,658	29,558	69,283	79,569	86,754	100,131
Potomac River below Washington, D. C.	3,016	1,936	2,402	3,574	3,796	3,790
James River, Va.	2,649	1,469	3,663	4,689	5,197	5,520
Wilmington Harbor, N. C.	12,785	11,169	4,022	4,093	4,693	4,777
Black Warrior, Warrior, and Tombigbee Rivers, Ala.	1,890	1,492	2,603	3,019	4,221	4,409
San Joaquin River, Calif.	1,049	1,220	1,495	2,035	2,414	3,068
Columbia and Lower Willamette Rivers below Vancouver, Wash., and Portland, Oreg.	15,028	16,635	18,578	17,751	19,826	21,036
Columbia River from Vancouver, Wash., to The Dalles, Oreg.	1,884	1,417	2,845	3,047	3,216	3,395
Willamette River above Portland and Yamhill Rivers, Oreg.	3,067	2,877	3,948	4,109	4,290	4,848
Illinois Waterway, Ill.	5,729	6,591	16,421	19,311	21,363	23,377
Mississippi River, Minneapolis, Minn., to the Passes	32,372	43,969	66,923	82,404	94,042	104,212
Allegheny River, Pa.	3,929	2,416	3,594	3,868	4,722	5,245
Monongahela River, Pa. and W. Va.	29,560	26,556	28,510	28,937	37,618	36,955
Kanawha River, W. Va.	4,499	4,499	6,388	6,369	7,644	8,370
Ohio River, Pittsburgh to mouth	29,549	33,868	48,598	55,077	71,461	76,377
Cumberland River, Tenn., and Ky.	852	814	1,647	2,233	2,878	3,038
Tennessee River, Tenn., Ala., and Ky.	2,207	2,163	3,051	8,416	9,975	12,299
FEDERAL CANALS AND CONNECTING CHANNELS						
Cape Cod Canal, Mass.	7,901	14,684	13,625	12,930	13,388	14,032
Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md.	3,795	3,690	7,298	8,816	9,151	10,709
Lake Charles Deep Water Channel, La.	8,601	10,288	12,164	14,143	14,901	17,035
Gulf Intracoastal Waterway, Apalachee Bay, Fla., to the Mexican border	11,643	23,045	31,520	36,982	41,379	45,354
Sabine-Neches Waterway, Tex.	38,433	26,318	48,385	53,524	56,234	62,790
Port Aransas (Aransas Pass) Corpus Christi Waterway, Tex.	14,180	13,074	21,132	23,076	24,330	25,145
Detroit River, Mich.	18,294	127,045	127,292	102,358	132,507	124,850
St. Marys Falls Canal, Mich.	89,360	112,983	106,140	83,616	114,649	108,756
Grays Reef Passage, Mich.	5,962	4,905	6,045	5,420	5,399	6,176
STATE CANALS						
New York State Barge Canal	4,768	2,969	4,616	3,859	4,616	4,858
Innerharbor Navigation Canal, La.	2,687	1,430	2,338	3,212	3,834	4,790

¹ Reported as "Cape Fear River at and below Wilmington, N. C."Source: Department of the Army, Corps of Engineers; figures through 1953, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 765.—COMMERCIAL TRAFFIC THROUGH THE PANAMA CANAL, 1940 TO 1957,
AND BY NATIONALITY OF VESSEL, 1957

[For years ending June 30. Comprises oceangoing tolls-paying vessels and foreign naval vessels of 300 net tons and over (Panama Canal measurement) for vessels rated on net tonnage, or 500 tons displacement and over for vessels rated on displacement tonnage]

YEAR	Number of transits	Net tonnage ¹ (1,000)	Tolls (\$1,000)	Tons of cargo (1,000 long tons)	NATIONALITY OF VESSEL, 1957	Number of transits	Net tonnage ¹ (1,000)	Tolls (\$1,000)	Tons of cargo (1,000 long tons)
1940.....	5, 370	24, 144	21, 145	27, 299	Chile.....	78	401	358	469
1941.....	4, 727	20, 643	18, 168	24, 951	China.....	54	247	218	404
1942.....	2, 688	11, 010	9, 762	13, 607	Colombia.....	207	533	478	281
1943.....	1, 822	8, 234	7, 357	10, 600	Denmark.....	331	1, 466	1, 294	1, 361
1944.....	1, 562	6, 073	5, 456	7, 003	Ecuador.....	51	150	135	93
1945.....	1, 939	8, 381	7, 244	8, 604	Finland.....	33	139	122	139
1946.....	3, 747	17, 617	14, 774	14, 978	France.....	88	493	457	503
1947.....	4, 260	20, 233	17, 597	21, 071	Germany.....	689	2, 750	2, 389	2, 837
1948.....	4, 678	22, 902	19, 957	24, 118	Great Britain.....	1, 309	8, 128	7, 233	8, 744
1949.....	4, 793	23, 473	20, 541	25, 805	Greece.....	118	603	537	1, 100
1950.....	5, 448	28, 013	24, 430	28, 872	Honduras.....	394	731	607	335
1951.....	5, 593	27, 180	23, 906	30, 073	Italy.....	157	871	769	860
1952.....	6, 524	30, 674	26, 923	33, 611	Japan.....	553	3, 119	2, 806	3, 924
1953.....	7, 410	36, 679	31, 918	36, 095	Liberia.....	690	3, 933	3, 385	6, 184
1954.....	7, 784	38, 028	33, 248	39, 095	Netherlands.....	104	848	749	845
1955.....	7, 997	38, 568	33, 849	40, 646	Norway.....	913	4, 869	4, 239	5, 401
1956.....	8, 209	41, 203	36, 154	45, 119	Panama.....	443	1, 710	1, 461	2, 231
1957.....	8, 379	43, 628	38, 444	49, 702	Spain.....	40	136	121	152
					Sweden.....	160	851	762	785
					United States.....	1, 919	11, 015	9, 730	12, 729
					All other.....	188	636	592	824

¹ Panama Canal net.

Source: Panama Canal Company; annual report.

No. 766.—VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED
TONNAGE, BY REGIONS: 1921 TO 1957

[In thousands of net tons. Excludes domestic trade]

YEARLY AVERAGE OR YEAR	ATLANTIC COAST		GULF COAST		PACIFIC COAST		Mexican border, total	NORTHERN BORDER	
	Total	With cargo	Total	With cargo	Total	With cargo		Total	With cargo
Entered:									
1921-1925.....	30, 979	27, 133	12, 390	8, 243	9, 562	6, 070	28	13, 334	6, 475
1926-1930.....	36, 884	33, 003	11, 634	7, 415	15, 100	8, 247	150	15, 293	7, 700
1931-1935.....	31, 721	28, 668	8, 058	4, 858	14, 968	9, 239	180	10, 462	4, 997
1936-1940.....	30, 634	26, 925	10, 115	5, 593	14, 108	9, 368	663	11, 595	5, 187
1941-1945.....	34, 914	18, 397	6, 454	4, 463	11, 211	6, 153	40	15, 374	5, 060
1946-1950.....	48, 414	35, 490	15, 396	7, 954	10, 928	6, 546	353	12, 369	2, 756
1951-1955.....	64, 957	54, 693	18, 092	11, 738	17, 263	11, 716	345	14, 333	3, 898
1952.....	64, 833	52, 080	18, 328	10, 543	17, 789	11, 133	313	15, 112	3, 907
1953.....	60, 271	54, 855	17, 060	11, 039	19, 079	13, 243	335	15, 215	3, 923
1954.....	61, 952	56, 568	18, 416	13, 096	16, 462	12, 292	367	12, 327	3, 828
1955.....	75, 762	61, 965	20, 323	14, 283	17, 441	13, 063	281	14, 597	4, 631
1956.....	86, 067	66, 503	24, 033	15, 452	20, 424	15, 322	241	17, 077	5, 542
1957.....	93, 420	69, 987	27, 917	17, 067	24, 554	18, 261	254	16, 781	5, 400
Cleared:									
1921-1925.....	30, 837	24, 284	12, 833	9, 589	9, 880	8, 360	28	13, 075	9, 236
1926-1930.....	36, 361	28, 696	12, 326	10, 641	15, 658	13, 148	95	15, 319	10, 504
1931-1935.....	30, 658	23, 563	9, 018	8, 079	15, 411	13, 220	127	10, 351	7, 309
1936-1940.....	30, 472	22, 459	11, 064	9, 601	14, 752	13, 394	677	11, 575	9, 412
1941-1945.....	35, 545	27, 351	7, 636	6, 494	13, 082	11, 288	40	15, 489	12, 657
1946-1950.....	47, 766	31, 273	15, 757	13, 446	11, 032	9, 702	332	12, 301	10, 819
1951-1955.....	65, 261	38, 063	17, 870	14, 269	17, 649	15, 770	433	14, 234	12, 002
1952.....	63, 781	40, 013	18, 001	15, 176	17, 531	15, 688	391	15, 095	12, 578
1953.....	60, 179	33, 431	17, 343	14, 021	17, 654	17, 139	451	15, 308	12, 957
1954.....	62, 393	32, 768	17, 681	13, 348	17, 134	15, 097	466	12, 225	10, 261
1955.....	76, 412	42, 336	20, 057	14, 901	17, 897	16, 099	440	14, 561	11, 830
1956.....	85, 930	48, 754	24, 075	18, 687	21, 005	17, 517	383	16, 878	13, 658
1957.....	92, 803	53, 545	28, 042	21, 972	24, 075	19, 491	435	16, 624	13, 554

Source: Department of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, and records.

No. 767.—VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY CLASSES: 1921 TO 1957

[In thousands of net tons, except number of vessels and percentages. Excludes domestic trade. See also *Historical Statistics, 1789-1945, series K 146-157*]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS ¹					
	Number of vessels	All vessels			Total tonnage	All vessels		With cargo			
		Total tonnage	U. S.	Foreign		U. S.	Foreign	Total tonnage	U. S.	Foreign	
ENTERED											
1921-1925.....	41,546	66,293	29,645	36,648	44.7	52,959	22,526	30,433	41,471	18,404	23,068
1926-1930.....	45,846	70,062	30,314	48,748	38.3	63,768	23,182	40,586	48,710	18,809	29,901
1931-1935.....	31,338	65,390	23,847	41,543	36.5	54,928	19,854	35,074	42,835	16,870	25,965
1936-1940.....	33,954	67,117	19,243	47,873	28.7	55,521	16,090	39,432	41,951	13,865	28,086
1941-1945.....	38,997	67,994	34,658	33,336	51.0	52,620	30,059	22,560	28,995	16,877	12,118
1946-1950.....	48,813	87,462	46,205	41,257	52.8	75,094	42,168	32,926	50,288	26,318	23,970
1951-1955.....	48,082	114,990	39,459	75,531	34.3	100,657	35,345	65,313	78,407	26,759	51,649
1945.....	48,318	94,021	61,375	32,646	65.3	81,182	56,499	24,682	37,992	26,080	11,912
1946.....	48,082	80,258	53,045	27,213	66.1	69,520	49,143	20,378	36,348	23,437	12,911
1947.....	50,449	93,796	53,627	40,170	57.2	80,889	49,044	31,844	43,872	26,029	17,843
1948.....	50,238	90,927	47,726	43,199	52.5	76,910	43,270	33,640	51,044	28,107	22,937
1949.....	48,368	85,700	41,251	44,451	48.1	74,701	37,626	37,076	56,403	27,479	28,924
1950.....	46,926	86,629	35,376	51,251	40.8	73,451	31,757	41,693	63,771	26,536	37,235
1951.....	48,466	108,086	44,571	63,515	41.2	93,674	40,482	53,192	66,868	28,005	38,863
1952.....	50,076	116,375	45,223	71,152	38.9	101,263	40,732	60,532	73,973	28,496	45,477
1953.....	47,802	112,559	39,319	73,240	34.9	97,344	34,969	62,375	79,410	26,794	52,616
1954.....	45,651	109,524	33,860	75,664	30.9	97,198	30,133	67,065	82,234	25,167	57,067
1955.....	48,415	128,405	34,321	94,084	26.7	113,807	30,407	83,400	89,552	25,331	64,220
1956.....	52,999	147,844	36,247	111,598	25.5	130,767	31,254	99,514	97,442	26,224	71,218
1957.....	55,308	162,925	35,898	127,027	22.0	146,144	31,189	114,956	105,304	24,915	80,389
CLEARED											
1921-1925.....	40,120	66,653	29,554	37,099	44.3	53,578	22,556	31,022	42,233	14,974	27,259
1926-1930.....	44,082	79,760	30,709	49,051	38.5	64,441	23,338	41,102	52,581	17,071	35,510
1931-1935.....	30,520	65,565	23,616	41,949	36.0	55,214	19,653	35,561	44,990	15,729	29,261
1936-1940.....	32,706	68,541	19,448	49,093	28.4	56,967	16,302	40,665	46,126	13,116	33,009
1941-1945.....	38,195	71,792	37,283	34,509	51.9	56,304	32,585	23,718	45,147	26,377	18,770
1946-1950.....	45,135	87,190	44,942	42,244	51.5	74,889	40,933	33,956	54,584	29,510	25,073
1951-1955.....	45,324	115,447	39,533	75,914	34.2	101,213	35,531	65,682	68,396	25,407	42,989
1945.....	46,210	94,559	61,460	33,099	65.0	81,452	56,332	25,120	63,992	44,705	19,286
1946.....	44,464	77,225	49,124	28,101	63.6	66,376	45,113	21,263	47,828	31,963	15,865
1947.....	48,374	97,160	54,088	43,072	55.7	84,508	49,558	34,949	67,483	38,783	28,700
1948.....	46,067	89,449	45,775	43,667	51.2	75,714	41,348	34,358	56,154	29,840	26,314
1949.....	43,503	84,286	39,681	44,604	47.1	73,063	36,136	36,927	52,759	25,446	27,313
1950.....	43,268	87,829	36,043	51,778	41.0	74,785	32,510	42,269	48,695	21,520	27,175
1951.....	45,753	110,236	46,763	63,472	42.4	96,257	43,024	53,233	70,756	32,356	38,400
1952.....	46,501	114,797	43,726	71,071	38.1	99,703	39,273	60,429	71,111	29,451	41,660
1953.....	44,757	112,935	39,188	73,747	34.7	97,627	34,775	62,852	64,889	24,786	40,103
1954.....	42,966	109,899	33,579	76,321	30.6	97,674	29,969	67,706	61,561	19,679	41,883
1955.....	46,642	129,368	34,407	94,961	26.6	114,806	30,615	84,192	73,663	20,763	52,900
1956.....	50,735	148,269	36,317	111,952	24.5	131,391	31,510	99,881	85,285	21,262	64,023
1957.....	52,687	162,578	35,118	127,460	21.6	145,954	30,569	115,385	95,379	22,067	73,312

¹ Comprises all ports except northern border ports.

Source: Department of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States* and records.

No. 768.—UNITED STATES FLAG STEAM AND MOTOR MERCHANT VESSELS: 1940 TO 1957

d-weight tonnage in thousands. As of June 30, except as indicated. Covers seagoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types and vessels employed on Great Lakes

R AND TYPE OF VESSEL	ACTIVE VESSELS										TEMPORARILY INACTIVE		RESERVE FLEET		SPECIAL SERVICE	
	ALL VESSELS		Foreign trade				Domestic trade				Noncontiguous					
	Num- ber	Tons	Total		Num- ber	Tons	Coastwise		Intercoastal		Num- ber	Tons	Num- ber	Tons	Num- ber	Tons
			Num- ber	Tons			Num- ber	Tons	Num- ber	Tons						
combination.....	1,300	11,019	1,118	9,643	425	3,749	693	5,893	122	1,139	71	532	181	1,367	1	10
argo.....	140	873	112	696	66	514	46	182	36	129	9	45	28	176	45	10
argos.....	790	6,020	641	4,882	291	2,443	350	2,438	183	988	53	417	148	1,129	1	10
ankers.....	370	4,126	365	4,065	68	791	297	3,273	276	3,054	9	70	5	62	12	183
(Sept. 30).....	4,852	50,263	2,332	25,399	1,890	20,592	442	4,807	54	553	91	757	533	4,998	1,557	3,728
combination.....	117	800	25	165	15	127	10	38	101	728	10	38	28	175	33	247
argo.....	3,829	36,675	1,833	18,110	1,607	16,200	226	1,910	53	561	72	617	490	4,198	1,159	3,288
ankers.....	906	12,785	474	7,122	268	4,264	206	2,858	196	2,751	2	101	55	624	365	1,183
combination.....	3,408	36,526	1,145	13,828	711	8,353	434	5,474	279	3,716	68	626	86	845	2,177	21,853
argo.....	83	639	51	417	45	389	6	28	66	559	6	28	4	27	38	196
ankers.....	2,846	28,927	682	7,075	505	5,367	177	1,708	38	649	53	500	42	384	2,122	21,408
combination.....	479	6,959	412	6,335	161	2,597	251	3,737	213	3,157	9	98	40	434	27	190
argo.....	3,235	35,017	1,026	12,872	601	6,992	425	5,850	271	3,999	79	885	89	1,099	1,983	19,687
ankers.....	249	1,687	40	371	39	361	1	10	43	385	1	10	1	63	185	1,360
combination.....	2,560	26,539	652	7,033	492	5,363	160	1,650	52	591	65	674	28	288	1,760	15,070
argo.....	426	6,790	334	5,468	70	1,248	264	4,220	23	405	13	201	47	742	88	1,149
ankers.....	3,150	34,052	1,046	13,177	644	7,538	402	5,639	40	457	81	913	51	567	1,972	19,498
combination.....	247	1,683	39	369	38	339	1	10	49	411	1	10	2	20	107	9
argo.....	2,511	26,007	673	7,257	524	5,688	149	1,569	40	457	67	701	37	355	1,736	17,785
ankers.....	392	6,363	334	5,550	82	1,489	252	4,061	239	3,858	13	202	12	192	39	130
combination.....	3,032	32,900	1,120	14,001	721	8,406	399	5,595	262	4,082	78	839	38	437	1,795	17,590
argo.....	230	1,594	41	383	38	363	30	30	55	674	3	30	27	250	180	9
ankers.....	2,450	25,412	772	8,324	611	6,649	161	1,675	55	615	65	692	27	187	1,601	15,384
combination.....	352	5,894	307	5,254	72	1,365	235	3,891	4	60	10	147	11	187	14	20

¹ All inactive vessels.

² Includes ships originally constructed as cargo ships but converted to transports, hospital ships, etc., previously included in cargo classification as follows: 1955 and 1956, 181 ships, 124,000 tons each year; 1957, 177 ships of 1,093,800 tons.

Source: Department of Commerce, Maritime Administration; records.

No. 769.—MERCHANT VESSELS COMPLETED BY U. S. SHIPYARDS: 1920 to 1957

[Represents self-propelled steel vessels of 2,000 gross tons and over]

YEAR	ALL MERCHANT VESSELS		PASSENGER-CARGO/TRANSPORT			CARGO			TANKER		
	Number	Gross tons	Number	Gross tons	Dead-weight tons	Number	Gross tons	Dead-weight tons	Number	Gross tons	Dead-weight tons
1920.....	467	2,395,545	12	99,911	111,000	375	1,758,086	2,695,753	80	537,548	778,027
1925.....	12	83,916	3	18,850	11,470	9	65,066	92,200			
1930.....	18	163,500	5	50,311	39,269	2	15,824	24,000	11	97,365	161,219
1935.....	2	19,022							2	19,022	29,760
1940.....	53	444,727	6	68,943	61,222	31	227,275	334,660	16	148,509	238,352
1941.....	95	749,108	6	58,107	56,515	61	423,022	597,943	28	267,979	434,039
1942.....	724	5,392,848	11	101,847	81,290	652	4,678,880	6,842,689	61	612,121	982,381
1943.....	1,661	12,485,629	20	219,760	180,047	1,410	10,103,245	14,921,082	231	2,162,624	3,420,405
1944.....	1,463	11,403,163	48	461,291	330,311	1,175	8,455,475	11,857,797	240	2,486,397	3,954,957
1945.....	1,041	7,614,898	46	509,163	311,046	807	5,336,152	7,206,201	188	1,769,593	2,787,397
1946.....	83	645,706	9	76,719	84,667	66	487,354	728,583	8	81,633	120,900
1947.....	39	247,327	8	73,664	68,225	28	154,402	223,657	3	19,261	36,166
1948.....	24	158,915	1	15,359	10,513	17	92,049	158,863	6	51,507	87,693
1949.....	33	540,559							33	540,559	863,292
1950.....	26	404,617				3	26,854	43,500	23	377,763	608,593
1951.....	10	147,569	2	47,438	23,580	4	28,993	42,994	4	71,138	116,458
1952.....	31	398,750	6	101,430	56,650	17	169,979	288,638	8	127,841	202,454
1953.....	45	570,395	1	4,244	3,560	22	212,305	323,789	22	353,846	554,831
1954.....	39	585,052	1	4,000	6,000	11	106,171	159,840	27	474,881	793,503
1955.....	9	119,104				7	84,110	95,289	2	34,994	55,414
1956.....	8	113,298				2	6,844	15,032	6	106,454	169,377

No. 771.—EMPLOYMENT ON AMERICAN FLAG MERCHANT VESSELS: 1925 TO 1957

[As of June 30 except as indicated. Estimates of personnel employed on U. S. merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, the United States Army and Navy, and special types such as cable ships, tugs, etc.]

DATE	Employment	DATE	Employment	DATE	Employment
1925.....	56,750	1939.....	52,000	1952.....	79,650
1926.....	58,630	1940.....	49,810	1953.....	72,750
1927.....	61,430	1941.....	51,280	1954.....	68,850
1928.....	61,100	1942.....	47,410	1955.....	57,507
1929.....	64,480	1943 (June 20).....	75,000	1956: Mar. 31.....	56,294
1930.....	64,250	1944 (June 20).....	125,290	June 30.....	57,192
1931.....	58,780	1945 (June 20).....	158,860	Sept. 30.....	57,116
1932.....	54,000	1946 (June 20).....	120,050	Dec. 31.....	58,185
1933.....	54,380	1947 (Dec. 20).....	110,820	1957: Mar. 31.....	60,556
1934.....	55,100	1948.....	80,250	June 30.....	61,059
1935.....	56,150	1949.....	71,970	Sept. 30.....	56,036
1936.....	57,200	1950.....	61,550	Dec. 31.....	53,537
1937.....	59,150	1951.....	84,300		
1938.....	49,800				

Source: Department of Commerce, Maritime Administration; records.

No. 772.—BASIC WAGE SCALE FOR ABLE-BODIED SEAMEN: 1918 TO 1957

[Represents basic wage, over and above subsistence (board and room), paid to seamen having qualifying experience and employed on American flag merchant vessels. Excludes overtime and fringe benefits]

EFFECTIVE DATE	Monthly wage rate	EFFECTIVE DATE	Monthly wage rate	EFFECTIVE DATE	Monthly wage rate
May 4, 1918.....	\$75.00	Jan. 1, 1933.....	\$52.00	Oct. 1, 1947.....	\$197.50
July 28, 1918.....	85.00	Jan. 1, 1934.....	52.00	Mar. 1, 1948.....	210.00
May 1, 1920.....	85.00	Jan. 1, 1935.....	55.00	Dec. 3, 1948.....	226.00
May 1, 1921.....	72.50	Jan. 1, 1936.....	60.00	Sept. 30, 1950.....	248.50
Jan. 1, 1922.....	58.12	Jan. 1, 1937.....	64.00	Oct. 1, 1951.....	288.00
Jan. 1, 1923.....	49.44	Nov. 1, 1937.....	72.50	Apr. 27, 1952.....	302.40
Jan. 1, 1924.....	60.00	Oct. 31, 1938.....	72.50	June 16, 1953.....	314.41
Jan. 1, 1925.....	59.00	Jan. 1, 1939.....	72.50	June 16, 1954.....	1 314.41
Jan. 1, 1926.....	60.00	Jan. 1, 1940.....	72.50	Oct. 30, 1954.....	2 302.00
Jan. 1, 1927.....	77.00	Feb. 10, 1941.....	90.00	June 16, 1955.....	1 314.41
Jan. 1, 1928.....	60.00	Jan. 1, 1942.....	100.00	Nov. 22, 1955.....	2 423.00
Jan. 1, 1929.....	64.00	Oct. 1, 1945.....	145.00	June 16, 1956.....	1 333.27
Jan. 1, 1930.....	61.00	Apr. 1, 1946.....	162.50	Oct. 1, 1956.....	2 453.00
Jan. 1, 1931.....	60.00	June 15, 1946.....	172.50	June 16, 1957.....	1 353.27
Jan. 1, 1932.....	56.00	Feb. 1, 1947.....	182.85	October 1, 1957.....	2 478.00

¹ East coast; basic wage rate excludes any overtime payments.

² West coast; effective November 1955 the wage scale is based on 56 hours at sea and 40 hours in port for watchstanders. Penalty overtime is included in the basic wage.

Source: Department of Commerce, Maritime Administration; *Annual Report of Commission of Navigation, Collective Bargaining Agreements*, and records.

No. 773.—U. S. MERCHANT MARINE—SUMMARY: 1900 TO 1957

[As of June 30 for 1900 to 1940; January 1, thereafter. Covers documented vessels of 5 net tons or more. See also *Historical Statistics, 1789-1945*, series K 94-104 and K 124-126]

YEAR	NUMBER OF VESSELS			GROSS TONNAGE OF VESSELS (1,000)							
	Total	Steam and motor	All other	Total	Major class			Material of which built		Type of trade in which engaged ²	
					Steam and motor	Sailing	Un-rigged	Metal ¹	Wood	Foreign trade	Coast-wise and internal
1900.....	23,333	7,053	16,280	5,165	2,658	1,885	622	1,593	3,572	817	4,287
1910.....	25,740	12,452	13,288	7,508	4,900	1,655	952	4,117	3,391	783	6,669
1915.....	26,701	15,943	10,753	8,389	5,944	1,384	1,061	5,305	3,085	1,863	6,486
1920.....	28,183	18,814	9,369	16,324	13,823	1,272	1,228	12,448	3,876	9,925	6,358
1925.....	26,367	18,637	7,730	17,406	14,976	1,125	1,304	14,499	2,907	8,151	9,216
1930.....	25,214	18,211	7,003	16,068	13,757	757	1,554	13,514	2,554	6,296	9,723
1935.....	24,919	18,495	6,424	14,654	12,535	441	1,677	12,469	2,185	4,560	10,049
1940.....	27,212	19,504	7,708	14,018	11,353	200	2,466	(³)	(³)	3,638	10,352
1941.....	27,075	19,382	7,693	13,722	11,047	182	2,493	11,393	2,329	3,047	10,654
1942.....	27,325	19,471	7,854	13,860	11,072	166	2,621	11,641	2,218	4,109	9,744
1943.....	27,612	19,974	7,638	16,762	14,052	142	2,568	14,647	2,115	9,285	7,471
1944.....	28,690	21,511	7,179	25,795	23,217	129	2,449	23,837	1,959	18,685	7,105
1945.....	29,797	22,772	7,025	32,813	30,247	115	2,452	30,898	1,915	26,043	6,766
1946.....	31,386	24,355	7,031	38,501	35,928	98	2,475	36,571	1,929	29,705	8,791
1947.....	32,760	25,532	7,228	37,832	35,149	95	2,588	35,897	1,936	26,535	11,294
1948.....	33,843	26,633	7,210	33,167	30,469	87	2,611	31,211	1,956	22,021	11,143
1949.....	35,264	27,862	7,402	32,182	29,323	87	2,771	30,212	1,969	20,664	11,525
1950.....	36,083	28,793	7,290	31,215	28,327	82	2,806	29,263	1,952	19,154	12,048
1951.....	36,745	29,429	7,316	30,341	27,424	71	2,846	28,417	1,924	18,876	11,462
1952.....	37,389	30,189	7,200	30,416	27,459	66	2,891	28,559	1,857	19,279	11,134
1953.....	38,072	30,791	7,281	30,546	27,507	55	2,984	28,761	1,785	19,007	11,537
1954.....	39,008	31,565	7,443	30,764	27,631	46	3,087	28,982	1,782	18,974	11,787
1955.....	39,242	31,882	7,360	29,958	26,792	40	3,125	28,336	1,022	18,143	11,812
1956.....	39,499	32,030	7,469	29,610	26,251	34	3,326	28,073	1,537	17,765	11,843
1957.....	40,191	32,423	7,768	29,421	25,785	24	3,612	27,935	1,486	17,265	12,154

AREA OF LOCATION	NUMBER OF VESSELS					GROSS TONNAGE OF VESSELS (1,000)				
	1950	1954	1955	1956	1957	1950	1954	1955	1956	1957
Total.....	36,083	39,008	39,242	39,499	40,191	31,215	30,764	29,958	29,610	29,421
Atlantic and Gulf ⁴	21,623	23,433	23,355	23,298	23,737	20,420	21,147	20,402	19,823	19,642
Pacific ⁴	10,066	10,632	10,687	10,715	10,667	8,446	7,152	7,004	7,129	6,964
Northern lakes.....	2,026	2,015	2,005	2,000	1,962	1,628	1,616	1,590	1,558	1,569
Western rivers.....	2,368	2,928	3,195	3,486	3,825	721	849	962	1,100	1,247

¹ Comprises iron, steel, composite, concrete, and aluminum.

² Excludes vessels engaged in whale, cod, and mackerel fisheries.

³ Not available.

⁴ Includes Puerto Rico and Virgin Islands.

⁵ Includes Hawaii and Alaska.

Source: Treasury Department, Bureau of Customs; annual report, *Merchant Marine Statistics*

No. 774.—U. S. MERCHANT MARINE—NUMBER AND GROSS TONNAGE OF VESSELS,
BY YEAR OF BUILD: 1957

[As of January 1. Covers documented vessels of 5 net tons or more]

YEAR OF BUILD	Number	Gross tons	YEAR OF BUILD	Number	Gross tons	YEAR OF BUILD	Number	Gross tons
Total..	40,191	29,421,255	1933.....	304	55,997	1945.....	1,809	4,356,807
Unknown..	707	59,217	1934.....	387	32,823	1946.....	1,508	599,521
1822-1900...	786	252,464	1935.....	551	38,007	1947.....	1,402	269,736
1901-1905...	649	391,325	1936.....	731	93,422	1948.....	1,266	223,597
1906-1910...	964	911,874	1937.....	816	112,030	1949.....	1,155	219,473
			1938.....	722	99,533	1950.....	1,029	225,691
1911-1915...	1,358	337,764	1939.....	739	157,716	1951.....	1,116	333,524
1916-1920...	1,786	550,332	1940.....	871	360,893	1952.....	1,138	454,443
1921-1925...	1,946	533,116	1941.....	929	475,537	1953.....	1,340	653,081
1926-1930...	3,428	661,760	1942.....	1,540	3,300,944	1954.....	1,316	611,305

No. 776.—U. S. MERCHANT MARINE—NUMBER AND GROSS TONNAGE OF VESSELS, BY TONNAGE GROUPING: 1957

[As of January 1. Covers documented vessels of 5 net tons or more]

TONNAGE GROUPING	ALL VESSELS		STEAM		MOTOR		SAILING		UNRIGGED	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
Total	40,191	29,421	3,628	23,788	28,795	1,998	193	24	7,575	3,612
5 to 49 tons.....	24,030	424	39	1	23,192	402	188	2	631	19
50 to 99 tons.....	3,323	231	87	7	2,864	197	7	(1)	365	26
100 to 499 tons.....	6,554	1,763	299	70	2,306	459	7	2	3,942	1,232
500 to 999 tons.....	2,345	1,603	76	54	179	118	6	5	2,084	1,426
1,000 to 2,499 tons.....	711	1,985	107	176	125	161	2	3	477	645
2,500 to 4,999 tons.....	282	1,047	117	460	88	324	3	11	74	252
5,000 to 9,999 tons.....	2,565	18,816	2,528	18,538	35	266	—	—	2	11
10,000 to 19,999 tons.....	370	4,279	364	4,209	6	70	—	—	—	—
20,000 tons and over.....	11	273	11	273	—	—	—	—	—	—

¹ Less than 500 gross tons.Source: Treasury Department, Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 777.—MERCHANT VESSELS LAUNCHED AND OWNED, FOR THE WORLD AND THE UNITED STATES: 1910 TO 1957

[Vessels of 100 gross tons and over. Beginning 1941, excludes sailing ships, nonpropelled craft, and all ships built of wood]

YEAR	WORLD				UNITED STATES			
	Launched ¹		Owned		Launched ¹		Owned	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1910.....	1,426	2,588	29,943	41,884	140	222	3,380	5,018
1915.....	1,637	4,016	30,643	49,246	605	2,217	3,180	5,846
1920.....	942	2,582	31,484	57,281	99	315	5,381	15,997
1925.....	873	2,469	32,905	64,638	74	159	4,790	15,314
1930.....	484	1,020	32,713	69,608	25	83	4,105	13,947
1935.....	1,040	2,595	30,979	64,886	117	244	3,585	12,773
1939.....	(2)	(2)	31,186	69,440	(2)	(2)	3,270	11,874
1940.....	495	1,754	(3)	(3)	167	579	(3)	(3)
1941.....	489	2,487	(3)	(3)	184	1,035	(2)	(3)
1942.....	1,285	7,812	(3)	(3)	861	5,671	(3)	(3)
1943.....	2,067	13,881	(3)	(3)	1,620	11,577	(3)	(3)
1944.....	1,690	11,157	(3)	(3)	1,237	9,332	(3)	(3)
1945.....	1,311	7,189	(3)	(3)	880	5,968	(2)	(3)
1946.....	655	2,108	(3)	(3)	95	501	(2)	(3)
1947.....	741	2,093	(3)	(3)	61	163	(3)	(3)
1948.....	840	2,303	26,479	79,714	49	126	4,807	29,060
1949.....	899	3,126	27,194	81,954	66	633	4,605	27,707
1950.....	990	3,489	27,922	83,996	51	437	4,531	27,404
1951.....	1,002	3,639	28,874	86,678	58	164	4,484	27,226
1952.....	1,065	4,394	28,751	89,636	64	468	4,458	27,139
1953.....	1,134	5,095	29,174	92,826	68	528	4,431	27,144
1954.....	1,223	5,251	29,766	96,899	46	477	4,404	27,252
1955.....	1,437	5,315	29,967	100,069	26	73	4,225	26,343
1956.....	1,815	6,070	30,620	104,720	50	169	4,157	26,074
1957.....	1,950	8,501	31,421	109,778	54	359	4,116	25,843

¹ Figures for 1910 to 1935 represent annual average of 5-year span beginning with the year shown; for example, the figure shown for 1910 is the annual average for 1910 to 1914, that for 1915, the annual average for 1915 to 1919, etc.² See 1935 average.³ Not recorded.

Source: Lloyd's Register of Shipping, London; records.

Section 23

Irrigation, Drainage, and Soil Conservation

This section presents statistics concerning agricultural land development, in particular, measures of the activities of irrigation and drainage enterprises, and reclamation and land conservation projects. The primary sources for these data are the Bureau of the Census which conducts decennially a Census of Drainage and a Census of Irrigation (as part of the Census of Agriculture), and a mid-decade Census of Agriculture which covers fewer items in these fields; the *Report of Administrator of Soil Conservation Service*, issued by the Soil Conservation Service of the Department of Agriculture; *Crop Summary and Related Data, Federal Reclamation Projects*, issued annually by the Bureau of Reclamation, Department of the Interior; and the *Annual Report of the Commissioner of Reclamation* to the Secretary of the Interior.

Irrigation.—Irrigated land as defined by the Bureau of the Census is the net acreage of farm land to which irrigation water is applied. It does not include land that could be irrigated, or usually is irrigated, but was not irrigated during the census year. Excluded also is uncultivated land (roads, farmsteads) in irrigated farms and irrigated nonfarm land (cemeteries, parks, golf courses, etc.).

Most of the irrigated land is located in the 17 Western States and Arkansas, Louisiana, and Florida. In these States the Bureau of the Census collects information on acres irrigated, irrigation works, capital investment, and a number of other items from irrigation companies, districts, and other organizations, and from farms that operate their own irrigation supply works. Information for the other States, excepting special surveys, is limited to that reported in the regular farm census.

The development of irrigation projects rests primarily on the Bureau of Reclamation. By Congressional directive its activities are confined to the 17 Western States and Alaska. The operation of irrigation works, upon complete development, is transferred to capable private water user organizations.

Drainage.—Most farm land drainage works serve to reclaim and improve the land. Other purposes are to protect the land against overflow, and to rid the land of seepage from irrigation ditches or for control of alkali formation.

The farm lands of the Eastern States need drainage to remove surplus rainfall. Most of this is gravity drainage, although pumps are sometimes used. In the Western States drainage serves to remove seepage water from irrigated lands and to carry off alkali salts.

The Bureau of the Census in 1950 enumerated, in general, only those organized

age enterprises into two groups: The 10 "county-drain" States and the 30 "drainage-district" States. The 8 States with no drainage enterprises are the 6 New England States, Pennsylvania, and West Virginia. In the 10 "county-drain" States (Delaware, Indiana, Iowa, Kentucky, Michigan, Minnesota, North Dakota, Ohio, Oklahoma, South Dakota), statistics were gathered for the county as a unit, rather than for each separate enterprise as for the 30 "drainage-district" States. Generally, the maintenance work on existing ditches has been done by reorganizing the land of an earlier enterprise into a new project. Since the number of enterprises for "county-drain" States would be meaningless, the number was not obtained for these 10 States.

In the Western States most of the drained land is located in irrigation enterprises which were chartered to do both irrigation and drainage work under one organization. The cost of construction, operation, and maintenance of the irrigation works is usually far greater than that for drainage. Separate records are seldom kept of expenditures for drainage and irrigation. Data were not included in the 1950 Census for cost, collections, and indebtedness of irrigation enterprises having their own drainage. Therefore, the data for 1950 are not fully comparable with those for earlier years.

Soil conservation.—Basic soil conservation district legislation has now been enacted in all of the 48 States and 4 of the Territories and possessions. Each of these laws contains an effective date after which soil conservation districts could be organized by local farmers and operators. A soil conservation district is a political subdivision of a State which is determined by petition and referendum of farmers residing in the area, and approved by the State Soil Conservation Committee. Districts, in most cases, have authority to solicit Federal, State, county, and private assistance in carrying on their soil and water conservation program within the area. On request of the local governing body of each soil conservation district, the Department of Agriculture provides technical and other assistance to districts, through its several agencies. "Memorandums of understanding" form the basis on which any departmental assistance is provided to a district for use on the farms and ranches within the district. After the basic memorandum with the Department has been signed, the Soil Conservation Service signs a supplemental memorandum with each district governing body requesting assistance, to cover activities which the Soil Conservation Service will help each district to carry out.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, 1789-1945*, series F 56-59") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*, and its *Continuation to 1952*. See preface.

No. 778.—IRRIGATION ENTERPRISES—SUMMARY: 1910 TO 1950

[Data are for the 17 Western States, Arkansas, Louisiana, and, for 1940 and 1950, Florida. Tables 778 and 780 relate to irrigation enterprises of all types, including those operated by individual farmers. They are based on reports of management of enterprises. An enterprise is defined as "an independent irrigation establishment owning or operating works for supplying water to agricultural land." See also *Historical Statistics, 1789-1945*, series F 56-59]

ITEM	1910	1920	1930	1940	1950
Approximate land area.....1,000 acres..	1,224,063	1,223,989	1,223,989	1,259,784	1,258,972
Farms (irrigated and nonirrigated) ²number..	1,776,046	1,916,391	2,062,813	1,960,093	1,669,447
Land in all farms ²1,000 acres..	416,463	505,441	568,694	637,388	734,577
Irrigation enterprises:					
Enterprises.....number..	56,858	63,298	75,517	95,265	123,926
Area irrigated.....1,000 acres..	14,433	19,192	19,548	21,136	26,233
Investment in irrigation enterprises.....1,000 dollars..	321,454	697,657	892,756	1,059,105	1,887,738
Increase over preceding census.....percent..	359.2	117.0	28.0	18.6	78.2
Average per acre irrigated.....dollars..	22.27	36.35	45.67	50.11	71.96
Increase over preceding census.....percent..	-----	63.2	25.6	9.7	43.6
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars....	¹ 1.07	2.43	2.77	2.19	4.89

¹ Represents redeterminations and therefore differs from figures shown for earlier years.

No. 780.—IRRIGATION ENTERPRISES—AREA IRRIGATED, 1939 AND 1949, CAPITAL INVESTED, 1940 AND 1950, AND DAMS, RESERVOIRS, CANALS, PIPELINES, AND WELLS, 1950, BY STATES

[See headnote, table 778. Minus sign (—) denotes decrease]

STATE	AREA IRRIGATED				CAPITAL INVESTED			
	1939	1949		In-crease, 1939 to 1949	1940	1950		In-crease, 1940 to 1950
		Total	Proportion of total			Total	Proportion of total	
	<i>Acres</i>	<i>Acres</i>	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Percent</i>	<i>Percent</i>
20 States, total.....	21, 136, 101	26, 233, 215	100.0	24.1	1,059,105,122	1,887,738,707	100.0	78.2
Arkansas.....	161, 601	419, 101	1.6	159.3	5, 766, 895	14, 171, 467	0.8	145.7
Louisiana.....	447, 095	597, 966	2.3	33.7	11, 565, 513	21, 503, 040	1.1	85.9
Florida.....	132, 362	362, 938	1.4	174.2	7, 055, 921	19, 549, 139	1.0	177.1
17 Western States, total.....	20, 395, 043	24, 853, 210	94.7	21.9	1,034,716,793	1,832,515,061	97.1	77.1
Arizona.....	653, 263	979, 114	3.7	49.9	83, 526, 608	137, 575, 193	7.3	64.7
California.....	5, 069, 568	6, 598, 839	25.2	30.2	318, 889, 218	640, 474, 185	33.9	100.8
Colorado.....	3, 220, 685	2, 943, 895	11.2	—8.6	106, 849, 343	163, 295, 813	8.7	52.8
Idaho.....	2, 277, 857	2, 167, 879	8.3	—4.8	102, 585, 798	129, 973, 554	6.9	26.7
Kansas.....	99, 980	140, 992	0.5	41.0	2, 153, 886	5, 882, 265	0.3	173.1
Montana.....	1, 711, 409	1, 808, 576	6.9	5.7	67, 352, 505	81, 256, 990	4.3	20.6
Nebraska.....	610, 379	887, 239	3.4	45.4	39, 056, 207	56, 463, 881	3.0	44.6
Nevada.....	739, 863	722, 966	2.8	—2.3	16, 906, 790	20, 181, 476	1.1	19.4
New Mexico.....	554, 039	691, 476	2.6	24.8	32, 735, 997	61, 137, 909	3.2	86.8
North Dakota.....	21, 615	35, 759	0.1	65.4	1, 755, 489	2, 957, 768	0.2	68.5
Oklahoma.....	4, 160	44, 209	0.2	962.7	272, 186	13, 076, 010	0.7	4,704.1
Oregon.....	1, 049, 176	1, 337, 517	5.1	27.5	50, 961, 251	74, 360, 981	3.9	45.9
South Dakota.....	60, 198	84, 356	0.3	40.1	5, 395, 610	6, 617, 914	0.4	22.7
Texas.....	1, 045, 224	3, 150, 527	12.0	201.4	66, 441, 376	144, 445, 313	7.7	117.4
Utah.....	1, 176, 116	1, 166, 972	4.4	—0.8	41, 896, 532	56, 539, 436	3.0	35.0
Washington.....	615, 013	618, 129	2.4	0.5	56, 415, 196	178, 289, 988	9.4	216.0
Wyoming.....	1, 486, 498	1, 474, 835	5.6	—0.8	41, 622, 801	59, 986, 390	3.2	44.5

STATE	1950							
	Diver-sion dams	Reser-voirs	RESERVOIRS WITH CAPACITY REPORTED		Canals and ditches	Pipe-lines and siphons	WELLS	
			Reser-voirs	Total capacity			Flow-ing	Pumped
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Acres-feet</i>	<i>Miles</i>	<i>Miles</i>	<i>Number</i>	<i>Number</i>
20 States, total.....	50, 131	7, 717	7, 002	42,407,489	138, 967	15, 851	10, 634	130, 688
Arkansas.....	108	86	74	40, 431	683	19	18	3, 662
Louisiana.....	319	58	57	31, 249	3, 477	62	849	3, 365
Florida.....	355	180	168	3, 343	695	482	4, 181	7, 598
17 Western States, total.....	49, 349	7, 393	6, 703	42,332,466	134, 112	15, 288	5, 586	116, 063
Arizona.....	552	269	237	3, 625, 679	4, 800	316	214	4, 361
California.....	4, 708	1, 684	1, 502	8, 711, 667	21, 183	10, 088	572	72, 147
Colorado.....	7, 709	1, 182	1, 106	2, 028, 550	18, 729	261	1, 371	4, 988
Idaho.....	5, 121	364	313	5, 124, 966	15, 159	487	458	888
Kansas.....	127	48	42	25, 505	542	13	11	1, 343
Montana.....	8, 139	629	577	1, 598, 898	15, 499	110	79	142
Nebraska.....	488	114	96	133, 934	4, 613	88	89	7, 157
Nevada.....	4, 065	202	176	687, 179	3, 388	123	290	254
New Mexico.....	1, 286	476	448	3, 186, 401	5, 763	168	106	3, 816
North Dakota.....	15	11	6	1, 101	193	7	—	4
Oklahoma.....	20	29	27	148, 945	354	19	—	160
Oregon.....	6, 231	528	471	2, 421, 138	8, 406	372	138	2, 770
South Dakota.....	281	100	94	204, 693	964	8	14	27
Texas.....	498	566	508	1, 402, 883	10, 092	1, 168	152	15, 070
Utah.....	3, 080	511	476	2, 224, 361	9, 621	300	1, 925	560
Washington.....	1, 861	222	205	6, 436, 522	4, 984	1, 614	69	2, 098
Wyoming.....	5, 228	458	419	4, 370, 044	9, 822	56	98	248

Source: Department of Commerce, Bureau of the Census; *U. S. Census of Agriculture: 1950*, Vol. III.

No. 781.—IRRIGATED LAND IN FARMS, BY STATES: 1939 TO 1954

[In 1940, the questionnaire called for land from which irrigated crops were harvested in 1939, and for land irrigated in 1939 and used for grazing or pasture; in 1945 and 1950, for total land in farms irrigated in 1944 and 1949; in 1954, irrigated cropland harvested plus irrigated pasture]

STATE	FARMS REPORTING				ACRES IRRIGATED			
	1939	1944	1949	1954	1939	1944	1949	1954
United States.....	299,604	288,195	305,061	320,236	17,982,830	20,539,470	25,787,455	29,552,155
The North.....	13,656	12,448	18,348	27,648	667,820	861,979	1,258,321	1,925,423
The South.....	32,639	29,008	39,087	57,185	1,601,384	2,372,296	4,552,481	7,102,185
The West.....	253,309	246,739	247,626	235,403	15,713,626	17,305,195	19,976,653	20,524,547
New England.....	338	922	1,581	2,017	2,846	12,153	31,450	38,395
Maine.....	33	3	123	87	143	100	2,299	1,097
New Hampshire.....	7	10	51	61	25	63	622	942
Vermont.....		2	22	55		6	303	689
Massachusetts.....	231	874	1,053	1,366	2,049	11,355	18,507	22,683
Rhode Island.....	10	9	52	43	109	133	1,631	1,009
Connecticut.....	57	24	280	405	520	496	8,088	11,975
Middle Atlantic.....	1,446	1,415	2,208	4,333	17,260	30,792	54,616	135,886
New York.....	567	646	888	1,675	5,948	10,316	19,248	59,024
New Jersey.....	580	675	1,033	1,775	7,956	11,712	28,117	58,912
Pennsylvania.....	299	94	287	883	3,356	8,764	7,251	17,950
East North Central.....	1,491	1,206	2,110	3,509	10,833	12,795	36,237	75,578
Ohio.....	658	463	458	847	4,536	4,178	5,706	15,379
Indiana.....	136	123	164	443	685	830	5,339	11,738
Illinois.....	72	47	139	266	307	368	1,510	6,789
Michigan.....	462	347	995	1,408	2,960	2,850	13,901	23,473
Wisconsin.....	163	226	354	545	2,345	4,569	9,781	18,199
West North Central.....	10,381	8,905	12,449	17,789	636,881	806,239	1,136,018	1,675,564
Minnesota.....	216	27	274	347	2,968	210	4,235	9,207
Iowa.....	88	54	76	132	2,258	1,197	1,386	2,396
Missouri.....	140	118	142	752	960	1,113	2,089	32,998
North Dakota.....	479	206	304	399	19,975	22,814	35,294	37,672
South Dakota.....	967	708	807	923	54,073	52,895	78,069	90,371
Nebraska.....	6,913	7,156	9,680	12,500	473,775	631,762	876,259	1,171,369
Kansas.....	1,578	636	1,166	2,736	82,872	96,248	138,686	331,551
South Atlantic.....	4,119	4,199	6,516	11,660	128,037	224,446	381,044	536,195
Delaware.....	2	3	10	81	7	22	404	5,553
Maryland.....	17	8	30	235	67	287	607	8,344
District of Columbia.....		16	2	(1)		45	13	(1)
Virginia.....	53	31	71	763	687	1,419	2,817	21,805
West Virginia.....	23	11	9	62	270	42	40	1,381
North Carolina.....	37	19	96	2,704	246	229	2,083	25,423
South Carolina.....	14	5	84	748	411	62	6,408	22,009
Georgia.....	26	14	130	1,268	158	492	2,161	23,873

**NO. 782.—FEDERAL BUREAU OF RECLAMATION IRRIGATION PROJECTS—ACREAGE
AND CROP VALUE, BY PROJECT: 1956**

STATE AND PROJECT	FULL IRRIGATION SERVICE LANDS			SUPPLEMENTAL IRRIGATION SERVICE LANDS ¹			TEMPORARY IRRIGATION SERVICE LANDS ¹		
	Irrigable acreage	Irrigated acreage	Gross crop value (\$1,000)	Irrigable acreage	Irrigated acreage	Gross crop value (\$1,000)	Irrigable acreage	Irrigated acreage	Gross crop value (\$1,000)
Total	4,154,499	3,323,341	496,815	3,422,078	3,022,541	448,154	82,224	54,261	6,655
Arizona:									
Gila.....	97,970	56,978	8,795						
Salt River.....	239,581	177,988	59,203	95,708	77,641	20,360			
Yuma.....	51,936	46,430	18,887						
Yuma Auxiliary.....	3,423	2,597	722						
California:									
Boulder Canyon-All American Canal System:									
Coachella Division.....	77,287	53,777	29,860						
Imperial Division.....	530,000	482,374	93,203						
Cachuma.....	500	61		26,450	12,246	8,373			
Central Valley.....	33,793	30,623	10,423	790,148	619,286	181,308	41,806	36,369	5,692
Klamath.....	78,549	72,745	7,384						
Orland.....	10,444	17,260	1,719						
Yuma.....	14,610	9,460	2,110						
Colorado:									
Colorado-Big Thompson.....				615,000	615,000	65,518			
Fruitgrowers Dam.....				2,662	1,720	255			
Grand Valley.....	34,765	28,831	4,033	7,730	7,730	1,920			
Manitou.....				8,761	7,220	324			
Missouri River Basin: Upper Republican Division:									
St. Francis Unit.....				750	734	24			
Paonia.....	11,653	8,900	731						
Pine River.....				41,193	37,057	2,015			
Pine River Indian Irrig. Uncompahgre.....	89,090	73,987	5,671	9,666	9,666	350			
Idaho:									
Avondale.....	927	383	21						
Boise.....	222,490	200,227	19,201	133,384	123,805	14,814			
Dalton Gardens.....	944	396	32						
Lewiston Orchards.....	3,589	2,085	448						
Minidoka.....	244,975	213,447	18,407	860,164	808,133	66,949	509	509	51
Owyhee.....	33,454	31,286	3,481						
Preston Bench.....				4,500	3,689	316			
Rathdrum Prairie.....	4,292	3,488	324						
Kansas:									
Missouri River Basin: Bostwick Division: Courtland Unit.....	10,100	5,347	405						
Montana:									
Bitter Root.....	16,665	16,340	589						
Buffalo Rapids.....	23,325	20,878	1,249				2,193	2,193	100
Frenchtown.....	4,810	3,802	217						
Huntley.....	32,487	24,426	1,576						
Intake.....	881	737	19						
Lower Yellowstone.....	36,866	32,591	2,327				974	974	54
Milk River.....	131,490	79,365	3,774						
Missoula Valley.....	977	768	29						
Missouri River Basin: Three Forks Div.: Crow Creek Pump Unit.....	1,542	897	48						
Yellowstone Division: Savage Unit.....	2,215	2,072	84						
Sun River.....	94,024	66,967	2,463						
Nebraska:									
Mirage Flats.....	11,657	11,235	1,123						
Missouri River Basin: Bostwick Division: Superior-Courtland Unit.....	21,009	14,567	1,301						
Frenchman-Cambridge Division.....	22,507	17,265	1,710						
North Platte.....	171,964	157,666	14,354	92,398	90,236	10,163	22,366		

See footnotes at end of table.

No. 782.—FEDERAL BUREAU OF RECLAMATION IRRIGATION PROJECTS—ACREAGE
AND CROP VALUE, BY PROJECT: 1956—Continued

STATE AND PROJECT	FULL IRRIGATION SERVICE LANDS			SUPPLEMENTAL IRRIGATION SERVICE LANDS ¹			TEMPORARY IRRIGATION SERVICE LANDS ¹		
	Irrigable acreage	Irrigated acreage	Gross crop value (\$1,000)	Irrigable acreage	Irrigated acreage	Gross crop value (\$1,000)	Irrigable acreage	Irrigated acreage	Gross crop value (\$1,000)
Nevada: Humboldt.....				40,500	29,795	1,884			
Newlands.....	72,370	54,763	2,949						
Truckee Storage.....				28,977	22,446	1,664			
New Mexico: Carlsbad.....	25,055	19,606	4,417						
Fort Sumner.....	6,500	5,366	522						
Middle Rio Grande.....	121,680	53,466	4,846						
Rio Grande.....	102,061	82,110	22,213						
Tucumcari.....	42,214	33,140	2,393						
Vermejo.....	7,379	4,941	205						
North Dakota:									
Bulford-Trenton.....	10,510	8,946	516						
Lower Yellowstone.....	19,405	16,740	1,109				73	73	4
Missouri River Basin:									
Heart Division:									
Dickinson Unit.....	338	338	19						
Heart Butte Unit.....	2,535	269	10						
North Dakota									
Pumping Div.:									
Fort Clark Unit.....	2,039	573	36						
Oklahoma:									
W. C. Austin.....	47,809	39,296	4,967						
Oregon: Arnold.....	4,292	2,891	120						
Baker.....				7,312	7,305	376			
Boise.....	1,724	1,450	85						
Burnt River.....				15,230	15,115	650			
Crescent Lake Dam.....	6,831	6,178	298						
Deschutes.....	50,000	46,951	6,014	49,140	46,001	3,429	² 819	819	59
Grants Pass.....	10,309	7,378	910						
Klamath.....	140,263	116,732	11,283						
Ochoco.....	8,500	8,333	651						
Owyhee.....	71,715	67,694	9,955	13,800	12,860	3,436			
Rogue River Basin.....				14,120	12,809	4,410			
Umatilla.....	18,033	12,123	629	14,229	10,922	1,292	536	503	78
Vale.....	32,000	31,594	2,192						
South Dakota:									
Belle Fourche.....	57,182	53,885	2,481						
Missouri River Basin:									
Cheyenne Division:									
Angostura Unit.....	12,154	10,500	583				220	220	12
Rapid Valley.....				8,900	7,310	242			
Texas: Balmorhea.....				10,608	7,700	1,180			
Rio Grande.....	75,890	50,245	14,533	³ 18,330	5,180	1,475			
Utah: Hyrum.....				6,800	5,780	366			
Moon Lake.....				75,256	54,302	1,174			
Newton.....				2,200	2,116	122			
Ogden River.....				22,867	15,869	1,906			
Provo River.....				46,609	37,540	3,780			
Sanpete.....				13,663	11,449	470			
Scofield.....				15,609	13,348	715			
Strawberry Valley.....	17,635	15,700	845	22,304	21,224	1,632	4,107	4,026	302
Weber River.....				109,032	90,941	8,804			
Washington:									
Columbia Basin.....	305,687	174,788	22,413						
Okanogan.....	5,307	3,972	651						
Yakima.....	265,332	227,130	51,326	181,761	163,530	35,414	240	194	28
Wyoming: Eden.....	10,070	8,571	301						
Kendrick.....	22,128	14,167	570						
North Platte.....	54,359	51,590	4,399	16,317	14,836	1,044			
Riverton.....	55,808	48,968	2,030				8,381	8,381	275
Shoshone.....	93,596	74,701	4,371						

¹ Supplemental and temporary irrigation service lands are largely unclassified.

² Nonirrigable lands irrigated with water from wasteways and water allotted to irrigable lands.

³ Area for which service is available under Warren Act contract.

Source: Department of the Interior, Bureau of Reclamation; 1956 Crop Summary and Related Data, Federal Reclamation Projects.

No. 783.—NUMBER AND AREA OF DRAINAGE ENTERPRISES CLASSIFIED BY SIZE:
1920 TO 1950

SIZE GROUP	Num- ber of enter- prises, 1950	AREA OF ENTERPRISES (acres) ¹						
		All drainage States			30 States ¹			
		1920	1930	1940	1920	1930	1940	1950
Total.....	14,066	95,629,291	128,495,078	132,828,451	23,657,216	41,644,155	45,207,287	54,617,706

No. 785.—GROWTH OF CONSERVATION DISTRICTS: 1938 TO 1957

[For years ending June 30. See text, p. 600. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Beginning 1941, includes wind-erosion districts and grazing districts. Beginning 1946, includes Imperial Irrigation District, California]

YEAR	DISTRICTS ORGANIZED ¹		TOTAL AREA IN DISTRICTS		DISTRICTS WITH SUPPLEMENTAL MEMORANDUMS	
	Each year	Cumulative total	New districts and additions	Cumulative total	Each year	Cumulative total
	Number	Number	1,000 acres	1,000 acres	Number	Number
1938.....	69	69	36,107	36,107	34	34
1939.....	92	161	52,339	88,446	79	113
1940.....	163	314	101,306	189,752	120	233
1941.....	241	555	145,091	334,843	201	434
1942.....	230	785	122,727	457,570	219	653
1943.....	116	901	60,102	517,672	159	812
1944.....	213	1,114	102,819	620,491	171	983
1945.....	232	1,346	120,368	740,859	221	1,204
1946.....	292	1,638	143,119	883,977	223	1,427
1947.....	251	1,889	118,991	1,002,969	315	1,742
1948.....	144	2,033	111,035	1,114,003	174	1,916
1949.....	131	2,164	64,760	1,178,763	158	2,074
1950.....	121	2,285	74,721	1,253,484	133	2,207
1951.....	88	2,373	51,626	1,305,110	122	2,329
1952.....	94	2,467	53,803	1,358,913	89	2,418
1953.....	82	2,549	45,075	1,403,989	59	2,477
1954.....	69	2,618	37,507	1,441,496	104	2,581
1955.....	56	2,674	43,478	1,484,974	63	2,644
1956.....	47	2,721	61,432	1,546,456	44	2,688
1957.....	49	2,770	50,535	1,596,991	46	2,734

¹ Totals at end of each year are net, including corrections and adjustments made during year.

Source: Department of Agriculture, Soil Conservation Service; *Report of Administrator of Soil Conservation Service*.

No. 786.—CONSERVATION PRACTICES NEWLY APPLIED IN CONSERVATION DISTRICTS, WITH SOIL CONSERVATION SERVICE ASSISTANCE: 1950 TO 1957

[For years ending June 30. See text, p. 600. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands]

PRACTICE	Unit	1950	1953	1954	1955	1956	1957
Contour farming.....	Acres....	3,491,511	3,342,055	4,127,109	3,146,889	2,965,786	2,660,044
Cover cropping.....	do.....	3,111,387	3,651,549	4,839,091	4,506,673	3,832,080	4,110,385
Strip cropping.....	do.....	829,200	790,610	930,235	947,611	971,131	890,016
Seeding range and pasture.....	do.....	1,876,832	2,902,820	3,008,406	3,134,634	3,278,121	3,431,427
Farm and ranch ponds.....	Number..	37,780	60,497	64,521	86,574	78,869	81,178
Tree planting.....	Acres....	128,784	248,271	266,033	313,209	351,479	472,435
Terraces.....	Miles....	100,612	51,064	47,791	45,806	52,187	50,937
Diversions.....	do.....	5,892	5,682	4,808	6,902	5,590	6,000
Farm drainage.....	Acres....	1,161,402	1,560,377	1,577,760	1,553,562	1,510,196	1,301,445
Irrigation land leveling.....	do.....	315,519	417,961	375,093	493,907	575,023	581,245
Improved water application.....	do.....	617,606	784,407	949,680	1,713,618	1,719,558	1,410,890

Source: Department of Agriculture, Soil Conservation Service; *Report of Administrator of Soil Conservation Service*.

No. 787.—SOIL CONSERVATION DISTRICTS—SUMMARY, BY STATES AND OTHER AREAS: CUMULATIVE TO JUNE 30, 1957

[See text, p. 600]

STATE OR OTHER AREA	Date district law became effective	Districts organized ¹	APPROXIMATE AREA AND FARMS WITHIN ORGANIZED DISTRICTS			Districts having Memo. of understanding with D. of A.	SOIL CONSERVATION DISTRICT COOPERATORS ²	
			Total area	Farms and ranches	Land in farms		Cooperators	Total area
Total		Number	1,000 acres	Number	1,000 acres	Number	Number	1,000 acres
		2,770	1,596,991	4,518	1,020,077	2,744	1,727,682	515,303
Continental U. S.		2,725	1,586,960	4,457	1,015,787	2,702	1,709,167	512,864
Alabama	Mar. 18, 1939	12	32,690	177	20,810	12	58,095	10,147
Arizona	June 16, 1941	47	41,163	8	19,489	47	4,695	4,429
Arkansas	July 1, 1937	75	33,712	145	17,944	74	69,545	14,774
California ³	June 23, 1938	139	52,583	85	20,563	134	26,484	8,201
Colorado	May 6, 1937	97	46,020	43	27,764	94	17,243	14,096
Connecticut	July 18, 1945	8	3,135	13	1,138	8	4,479	406
Delaware	Apr. 2, 1943	3	1,206	6	814	3	2,259	342
Florida	June 10, 1937	59	29,287	55	16,571	59	20,060	9,712
Georgia	Mar. 23, 1937	27	37,429	166	24,019	27	96,520	18,407
Idaho	Mar. 9, 1939	46	37,098	29	11,056	45	14,489	5,752
Illinois	July 9, 1937	97	32,448	171	29,643	97	47,579	8,253
Indiana	Mar. 11, 1937	75	18,066	117	14,832	72	27,193	4,147
Iowa	July 4, 1939	100	34,265	193	34,045	100	60,597	10,991
Kansas	Apr. 10, 1937	105	32,513	121	50,038	105	70,650	23,030
Kentucky	June 11, 1940	121	25,033	194	18,034	121	88,732	10,641
Louisiana	July 27, 1938	26	27,939	110	11,442	26	37,194	8,391
Maine	Mar. 25, 1941	15	16,485	22	3,449	15	8,020	1,600
Maryland	June 1, 1937	23	6,069	35	3,914	23	15,679	2,308
Massachusetts	June 28, 1945	15	4,998	17	1,439	15	7,705	815
Michigan	July 23, 1937	75	29,579	125	15,010	75	31,210	4,076
Minnesota	Apr. 26, 1937	75	31,083	128	24,367	73	34,319	7,192
Mississippi	Apr. 4, 1938	74	30,230	217	20,700	74	64,439	11,130
Missouri	July 23, 1943	33	11,768	59	9,588	32	13,909	2,862
Montana ⁴	Feb. 28, 1939	69	87,402	33	56,441	69	12,998	28,778
Nebraska	May 18, 1937	87	48,412	101	47,486	87	57,848	20,425
Nevada	Mar. 31, 1937	33	60,477	3	7,236	32	2,137	2,356
New Hampshire	May 10, 1945	10	5,771	10	1,457	10	5,083	832
New Jersey	July 1, 1937	12	4,785	23	1,674	12	7,416	847
New Mexico	Mar. 17, 1937	61	61,506	24	41,774	61	13,046	28,756
New York	July 20, 1940	46	24,561	95	13,972	45	38,348	5,296
North Carolina	Mar. 22, 1937	37	28,664	268	18,260	37	86,939	8,987
North Dakota	Mar. 16, 1937	77	44,594	62	42,071	77	33,414	21,190
Ohio	June 5, 1941	87	24,756	175	19,836	87	39,092	5,539
Oklahoma	Apr. 15, 1937	87	44,024	150	36,732	87	86,495	22,391
Oregon	Apr. 7, 1939	54	38,027	52	17,229	54	10,514	6,280
Pennsylvania	July 2, 1937	48	22,021	104	10,928	48	22,425	2,775
Rhode Island	Apr. 26, 1943	3	677	2	155	3	1,070	129
South Carolina	Apr. 17, 1937	44	19,395	124	11,069	44	40,888	6,736
South Dakota	July 1, 1937	69	38,201	61	38,201	69	33,445	21,315
Tennessee	Mar. 10, 1939	88	25,125	192	16,932	88	42,833	6,457
Texas ⁵	Apr. 24, 1939	172	162,230	289	139,422	171	184,569	94,969
Utah	Mar. 23, 1937	48	48,958	23	11,752	48	11,368	6,571
Vermont	Apr. 18, 1939	13	5,931	16	3,318	13	10,718	2,115
Virginia	Apr. 1, 1938	29	24,959	133	14,101	29	39,588	6,566
Washington	Mar. 17, 1939	76	38,391	67	17,890	76	30,981	10,666
West Virginia	June 12, 1939	14	15,272	68	7,308	14	34,486	5,078
Wisconsin	July 1, 1937	71	35,011	154	22,507	71	37,251	6,065
Wyoming	May 22, 1941	44	42,912	12	21,317	44	5,120	9,053
Alaska	Mar. 25, 1947	9	4,391	1	104	8	443	69
Hawaii	May 19, 1947	16	3,870	5	2,330	15	1,004	1,497
Puerto Rico	July 1, 1946	17	2,185	54	1,792	17	16,129	811
Virgin Islands	June 1946	2	85	1	64	2	939	62

¹ For specific procedure on organization of soil conservation districts, see respective State soil conservation district law. By provision of most State district laws, State soil conservation committee has responsibility for organization of districts. Local district governing bodies administer affairs of each individual district.

² Comprises all farmer-district cooperative agreements for initial, advanced and active basic conservation plans.

³ Includes Imperial Irrigation District.

⁴ Includes 10 grass conservation districts.

⁵ Includes 1 wind-erosion district.

Source: Department of Agriculture, Soil Conservation Service; annual report, *Soil Conservation Districts*, and records.